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United States Department of Agriculture,
FOREST SERVICE,
GIFFORD PINCHOT, Forester.

FIELD PROGRAMME FOR JULY, 1905.

A schedule of field work and assignments in the Forest Service is issued monthly during the field season. The names of members whose assignments are indefinite and reference to projects for which plans have not been matured are necessarily omitted.

It is requested that the members of the Forest Service cooperate in making this schedule complete and accurate. Information concerning errors or omissions, and changes of project or of address for the following month, should be sent by members to the offices of their respective chiefs not later than the 20th of the month.

Unless the address of a member is given in this schedule or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

Work conducted under the direction of the Forester is designated (F); Dendrology (D); Forest Management (M); Forest Products (P); Forest Extension (E); Forest Reserves (R).

ADMINISTRATION.

GIFFORD PINCHOT, *Forester.*
OVERTON W. PRICE, *Associate Forester.*
✓ GEO. B. SUDWORTH, *Chief of Dendrology.*
✓ THOMAS H. SHERRARD, *Chief of Forest Management.*
WILLIAM L. HALL, *Chief of Forest Products.*
E. A. STERLING, *Chief of Forest Extension.*
F. E. OLNSTED, *Chief of Section of Forest Reserves.*
JAMES B. ADAMS, *Chief of Records.*

FIELD WORK.

CALIFORNIA.

✓ (D) New and little-known eucalypts for the United States—Prof. A. J. MCCLATCHIE; permanent address, Gardena, Cal.
✓ (D) Study of tanbark oak of Pacific coast—Prof. W. L. JEPSON; permanent address, Berkeley, Cal.
✓ (D) Special studies of California trees, four-leaf pine, Torrey pine, Bishop pine—Prof. W. R. DUDLEY; permanent address, Stanford University, Cal.
✓ (D) Study of native and exotic acacias—Prof. A. V. STUBENRAUCH; permanent address, Berkeley, Cal.
✓ (M) Inspection of working plans for forest reserves—W. B. GREELEY, 180 Perry street, Oakland, Cal.
✓ (M) Fire protection plan for the McCloud River Lumber Company—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.; assistant, M. B. PRATT.
✓ (M) Study of the white fir—W. G. DURBIN, W. H. KEMPFER, and J. T. ELDRIDGE, McCloud, Cal.
(E) Preliminary examination for planting plan on lands of the Arrowhead Springs Company—J. D. GUTHRIE, Stewart Hotel, San Bernardino, Cal.

(E) Care of Government forest nursery, and preparation of a planting plan for the Santa Barbara Forest Reserve—G. W. PEAVY, Santa Barbara, Cal.; assistant, E. C. CLIFFORD.

(E) Care of Government forest nursery, San Gabriel Forest Reserve—T. P. LUKENS, Pasadena, Cal.; assistant, A. T. SEARLE.

(E) Preliminary examination for a planting plan in the Modoc and Warner Mountain forest reserves—S. J. FLINTHAM, Alturas, Cal.

(P) Timber tests of western yellow pine, in cooperation with University of California—ROLF THELEN, Berkeley, Cal.

COLORADO.

(E) Care and extension of Government nurseries in the Pikes Peak Forest Reserve—F. W. BESLEY, Clyde, Colo.; assistant, B. R. H. D'ALLEMAND.

(E) Preparation of a planting plan for the Gunnison Forest Reserve—S. B. DETWILER, Crested Butte, Colo.; assistant, C. H. SELLERS.

(E) Inspection of forest planting in the Pikes Peak Forest Reserve—L. C. MILLER, Clyde, Colo., until July 15.

CONNECTICUT.

(P) Timber tests, with special reference to the influence of rate of application of load on strength of longleaf pine, chestnut, and red spruce, in cooperation with Yale University—Prof. J. W. TOUMEY and H. D. TIEMANN, Yale Forest School, New Haven, Conn.; assistant, CORNELIUS BARRY.

(P) Experiments of a chemical nature germane to the utilization of wood—A. L. DEAN, Sheffield Scientific School, Yale University, New Haven, Conn.

FLORIDA.

✓(D) Improved methods of turpentining, experimental pine forests in cooperation with the Hillman-Sutherland Land Company—FRANK KLARPP, Green Cove Springs, Fla.

GEORGIA.

(P) Oversight of setting treated poles in telephone line between Savannah and Meldrim—FRANK TOMPKINS, Pulaski House, Savannah, Ga.

HAWAII.

(E) Examination of lands for insular forest reserves—R. S. HOSMER, Honolulu, Hawaii.

IDAHO.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—F. W. REED, Blackfoot, Idaho.

INDIANA.

(P) Timber testing at Lafayette, Ind., in cooperation with Purdue University—Dr. W. K. HATT, Lafayette, Ind.; assistants, H. D. HARTLEY, O. P. M. GOSS, T. A. NEWLIN, and T. P. KNAPP.

IOWA.

(E) Study of planted groves in Iowa—H. P. BAKER, Ames, Iowa; assistants, W. H. VON BAYER, R. F. BALTHIS, G. L. MARTIN, C. A. KUPFER, and E. O. SIECKE.

KENTUCKY.

✓(M) Working plan for the Interstate Investment Company, in cooperation with the company—G. M. HOMANS, headquarters, Crab Orchard, Va.; assistants, F. E. AMES, J. BENTLEY, and W. H. WEBER.

MICHIGAN.

✓(M) Working plan for F. Newhall & Sons, on North Manitou Island, in cooperation with the company—S. J. RECORD, North Manitou Island, Mich.; assistants, D. RODMAN and J. E. KEACH.

(E) Tree planting work in cooperation with the Pere Marquette Railway Company—G. L. CLOTHIER, Detroit, Mich.; after July 15, Washington, D. C.

(P) Experiments in seasoning hemlock and tamarack cross-ties, in cooperation with the Chicago and Northwestern and Wisconsin Central Railroad Companies—H. A. PAUL, New Ludington Hotel, Escanaba, Mich.; assistant, C. S. SMITH.

(P) Experiments in seasoning and rafting cedar and tamarack telephone poles, in cooperation with the State and with several telegraph, telephone, and railroad companies—C. E. FEAGIN, New Ludington Hotel, Escanaba, Mich.

MINNESOTA.

✓ (M) Investigation of tie production for the Northern Pacific Railway Company, in cooperation with the company—H. H. CHAPMAN, 593 Holly avenue, St. Paul, Minn.; assistants, L. L. WHITE and H. S. SACKETT.

MONTANA.

✓ (M) Inspection of timber cuttings on the forest reserves—T. H. SHERRARD, Bozeman, Mont.

✓ (M) Inspection of working plans for forest reserves in Montana and Wyoming—P. G. REDINGTON, Bozeman, Mont.

(E) Preliminary examination for planting plan in the eastern part of the Lewis and Clark Forest Reserve—W. J. GARDNER, Park Hotel, Great Falls, Mont.; assistant, J. DE WITT WARNER.

(E) Preparation of planting plan for a forest park, for the city of Helena—F. G. MILLER, Grandon Hotel, Helena, Mont.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—R. B. WILSON, Lewistown, Mont.; R. V. R. REYNOLDS, Missoula, Mont.

MISSOURI.

(P) Tie-seaoning experiments in cooperation with St. Louis and San Francisco Railroad Co.—G. E. CLEMENT and M. SMITH, Jr., Missouri Botanical Gardens, St. Louis, Mo.

NEBRASKA.

(E) Care of Government nursery, Dismal River Forest Reserve—C. A. SCOTT, Halsey, Nebr.; assistants, W. H. MAST, A. E. OMAN, and F. J. PHILLIPS.

NEW HAMPSHIRE.

✓ (M) Study of woodlot and forest conditions in southern New Hampshire, in cooperation with the State—C. A. LYFORD, Cheshire House, Keene, N. H.; assistants, K. W. WOODWARD, A. T. BOISEN, H. C. NEEL, C. A. GALARNEAU, and A. B. RECKNAGEL.

✓ (M) Preliminary examinations of timber tracts, in cooperation with land-owners—T. S. WOOLSEY, Jr., Bretton Woods, N. H.

NEW MEXICO.

(E) Care of Government forest nursery, and preparation of planting plan for portions of the new addition to the Gila River Forest Reserve—W. R. MATTOON, Fort Bayard, N. Mex.; assistants, A. S. PECK and T. J. TAYLOR.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, Silver City, N. Mex.; W. HAYES, Silver City, N. Mex.; CLYDE LEAVITT, Silver City, N. Mex.

NEW YORK.

✓ (M) Working plan for Delaware and Hudson Company, in cooperation with the company—A. W. COOPER, Riverside Inn, Saranac Lake, N. Y.; assistants, E. D. FLETCHER, R. Y. STUART, and D. N. ROGERS.

✓ (M) Working plans for woodlots, in cooperation with landowners—J. G. PETERS, Hyde Park, N. Y.; assistants, F. L. PRAY and H. F. STUDLEY.

NORTH CAROLINA.

✓ (M) Preparation of volume tables for chestnut extract wood—J. S. HOLMES, Swannanoa, N. C.; assistants, A. D. READ, J. A. HOWARTH, E. S. BRYANT, B. MOORE, and R. L. FROMME.

(P) Experiments in seasoning juniper and cypress telephone poles—J. M. NELSON, Jr., Wilmington, N. C.

OREGON.

(P) Experimental tests of timber at Lewis and Clark Centennial Exposition—Prof. L. E. HUNT, Portland, Oreg.

PENNSYLVANIA.

(P) Experimental treatment of chestnut poles in cooperation with the American Telephone and Telegraph Company—C. G. CRAWFORD, Thorndale, Pa.; assistants, W. R. WHEATON, W. I. HUTCHINSON, and JOHN APPLETON.

SOUTH CAROLINA.

(P) Tests of loblolly pine at mill of the E. P. Burton Lumber Company—H. S. BETTS, P. O. Box 494, Charleston, S. C.; assistant, M. CLINE.

TENNESSEE.

✓ (M) Study of production of lumber grades from important southern hardwoods—LOUIS MARGOLIN, Townsend, Tenn.; assistant, H. D. EVERETT.

TEXAS.

· (D) Study of forest conditions of the Big Thicket country—Prof. W. L. BRAY, Austin, Tex.

UTAH.

(E) Preparation of reforestation plan for the Salt Lake Forest Reserve—J. M. FETHEROLF, Salt Lake City, Utah; assistant, W. B. HADLEY.

VIRGINIA.

(P) Experiments in grading and treating cross-arms, in cooperation with the American Telephone and Telegraph Company—H. F. WEISS, care Norfolk Creosoting Works, Norfolk, Va.

WASHINGTON.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. T. COX, Republic, Wash.

WEST VIRGINIA.

(P) Experiments in seasoning chestnut telephone poles—W. F. SHERFESEE, Forest Service, Washington, D. C.

WYOMING.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—T. F. RIXON, care of F. W. REED, Blackfoot, Idaho.

✓ (M) Working plan for a portion of the Medicine Bow Forest Reserve—H. S. MEEKHAM, Saratoga, Wyo.; assistants, E. H. CLAPP, C. J. BUCK, J. REBMANN, W. J. BRADFIELD, W. B. PIPER, I. T. WORTHLEY, and M. SCHAAF.

REGIONAL STUDIES.

GENERAL.

(P) Collection of statistics of forest products for year 1905—R. S. KELLOGG, Washington, D. C.; GEO. K. SMITH, Equitable Building, St. Louis, Mo.

(P) Study of specifications for the grading of lumber—E. R. HODSON, Forest Service, Washington, D. C.

(P) Supervision of seasoning experiments—HENRY GRINNELL, Forest Service, Washington, D. C.

(P) Experiments in the preservative treatment of fence posts—R. W. AYERS, Forest Service, Washington, D. C.

OHIO VALLEY.

(E) Study of possibilities of forest planting, with special reference to the black locust—S. N. SPRING, Greensburg, Pa.

EASTERN STATES.

(P) Study of methods of kiln-drying lumber—FREDERICK DUNLAP, Forest Service, Washington, D. C.

(P) Study of methods of utilizing the waste of sawmills—J. FRED BAKER, Forest Service, Washington, D. C.

(P) Study of woods used in the cooperage industry—J. S. LEVISON and H. M. HALE, Forest Service, Washington, D. C.

(P) Study of woods used in the vehicle and implement industry—H. B. HOLROYD, Forest Service, Washington, D. C.

(P) Study of woods used for street paving—C. L. HILL, Forest Service, Washington, D. C.

(P) Study of woods used for box and basket purposes—J. P. WENTLING, Forest Service, Washington, D. C.

MIDDLE WEST.

(E) Study of railroad forest plantations—R. C. BRYANT, Washington, D. C.

WESTERN STATES.

(P) Seasoning experiments on lodgepole pine and western hemlock cross-ties, Taconia and Pasco, Wash., and Sand Point, Idaho, in cooperation with the Northern Pacific Railway Company—H. B. EASTMAN, 117 South C street, Tacoma, Wash.

FOREST RESERVES.

E. T. ALLEN, *Forest Inspector*, Sacramento, Cal.

A. A. ANDERSON, *Special Forest Inspector*, Fourbear, Wyo.

R. E. BENEDICT, *Forest Inspector*, Park City, Utah.

R. H. CHARLTON, *Forest Inspector*, Los Angeles, Cal.

F. A. FENN, *Forest Superintendent*, Lewiston, Idaho.

J. H. HATTON, *Forest Inspector*, Denver, Colo.

ELERS KOCH, *Forest Inspector*, Bozeman, Mont.

H. D. LANGILLE, *Forest Inspector*, Alturas, Cal.

A. F. POTTER, *Forest Inspector*, Salt Lake City, Utah.

SMITH RILEY, *Forest Inspector*, Denver, Colo.

D. B. SHELLER, *Forest Superintendent*, Tacoma, Wash.

ALASKA.

Afognak and Alexander Archipelago forest reserves—W. A. LANGILLE, Forest Inspector in charge of reserves in Alaska, Wrangell, Alaska.

ARIZONA.

Black Mesa Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.; WM. H. REED, Forest Ranger, Showlow, Ariz.

Chiricahua Forest Reserve—C. T. McGLOONE, Forest Supervisor, Paradise, Ariz.

Grand Canyon Forest Reserve (Northern Division)—LORUM PRATT, Forest Supervisor, Fredonia, Ariz.

Grand Canyon Forest Reserve (Southern Division)—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; PATRICK A. FENTON, Forest Ranger, Grand Canyon, Ariz.

Mount Graham Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.

Pinal Mountains Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.

Prescott Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.

San Francisco Mountains Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; BENJAMIN H. CROW, Forest Ranger, Williams, Ariz.

Santa Rita Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Santa Catalina Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

CALIFORNIA.

Lake Tahoe Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.

Lassen Peak Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

Modoc Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

Plumas Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

San Bernardino Forest Reserve—R. H. CHARLTON, Forest Inspector in charge, Los Angeles, Cal.; NELS O. TORSTENSON, Forest Ranger, San Bernardino, Cal.

San Gabriel Forest Reserve—R. H. CHARLTON, Forest Inspector in charge, Los Angeles, Cal.

San Jacinto Forest Reserve—J. R. BELL, Forest Supervisor, Valle Vista, Cal.

Santa Barbara Forest Reserve—W. M. SLOSSON, Forest Supervisor, Nordhoff, Cal.; STEPHEN H. DOUGLASS, Forest Ranger, Ventura, Cal.

Sierra Forest Reserve (Northern Division)—C. H. SHINN, Forest Supervisor, Northfork, Cal.; Forest Rangers, RICHARD L. P. BIGELOW, Bishop, Cal., and ERNEST BRITTON, Three Rivers, Cal.

Sierra Forest Reserve (Southern Division)—HARRISON WHITE, Forest Supervisor, Visalia, Cal.

Stanislaus Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.; JOHN C. WELLS, Forest Ranger, Echo, Cal.

Trabuco Canyon Forest Reserve—J. R. BELL, Forest Supervisor, Valle Vista, Cal.

Warner Mountains Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

COLORADO.

Battlement Mesa Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.

Cachetopa Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.

Gunnison Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.

Leadville Forest Reserve—JAS. H. CLARKE, Forest Supervisor, Denver, Colo.; WILLIAM W. HOOPER, Forest Ranger, Bailey, Colo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.; J. H. MULLISON, Forest Ranger, Walden, Colo.

Pikes Peak Forest Reserve—JAMES H. CLARKE, Forest Supervisor, Denver, Colo.; W. D. EDMONSTON, Forest Ranger, Larkspur, Colo.

San Isabel Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffat, Colo.

Wet Mountains Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffat, Colo.

White River Forest Reserve—W. L. VEATCH, Forest Supervisor, Buford, Colo.

IDAHO.

Bitter Root Forest Reserve—CASSIUS M. DAY, Forest Supervisor, Kooskia, Idaho.

Cassia Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

Henry's Lake Forest Reserve—HOMER FENN, Forest Ranger in charge, St. Anthony, Idaho.

Priest River Forest Reserve—B. F. McCONNELL, Forest Supervisor, Williams, Idaho.

Pocatello Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

MONTANA.

Bitter Root Forest Reserve (Montana Division)—E. A. SHERMAN, Forest Supervisor, Hamilton, Mont.

Gallatin Forest Reserve—MICHAEL LANGOHR, Forest Supervisor, Bozeman, Mont.

Highwood Mountains Forest Reserve—JAMES G. THAIN, Forest Supervisor, Highwood, Mont.

Lewis and Clark Forest Reserve (Northern Division)—F. N. HAINES, Forest Supervisor, Kalispell, Mont.

Lewis and Clark Forest Reserve (Southern Division)—A. M. BLISS, Forest Supervisor, Ovando, Mont.; PAGE S. BUNKER, Forest Ranger, Ovando, Mont.

Little Belt Forest Reserve—IRA E. TODD, Forest Supervisor, Neihart, Mont.

Madison Forest Reserve—J. B. SEELY, Forest Supervisor, Virginia City, Mont.

Yellowstone Forest Reserve (Absaroka Division)—E. C. RUSSELL, Forest Supervisor, Tony, Mont.

MINNESOTA.

Minnesota Forest Reserve—G. E. MARSHALL, Forest Ranger in charge, Cass Lake, Minn.; Forest Rangers, W. R. MCKINNON, MARK BURNS, GEORGE FARLEY, E. M. HAMILTON, W. E. LAFOUNTAIN, and R. G. GIFFIN, Cass Lake, Minn.

NEW MEXICO.

Gila River Forest Reserve—R. C. MCCLURE, Forest Supervisor, Silver City, N. Mex.; RUFUS K. WADE, Forest Ranger, Mogollon, N. Mex.

Lincoln Forest Reserve—CLEMENT HIGHTOWER, Forest Supervisor, Coalora, N. Mex.

Pecos River Forest Reserve—L. F. KNEIPP, Forest Ranger in charge, Santa Fe, N. Mex.

OKLAHOMA.

Wichita Forest Reserve—E. F. MORRISSEY, Forest Supervisor, Cache, Okla.

OREGON.

Ashland Forest Reserve—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.

Baker City Forest Reserve—S. S. TERRELL, Forest Supervisor, Sumpter, Oreg.

Bull Run Forest Reserve—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.

Cascade Forest Reserve (Northern Division)—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.; A. E. COHOON, Forest Assistant, Marmot, Oreg.; MILTON J. ANDERSON, Forest Ranger, The Dalles, Oregon.

Cascade Forest Reserve (Southern Division)—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.; A. E. COHOON, Forest Assistant; ADDISON S. IRELAND, Forest Ranger, Roseburg, Oreg.

SOUTH DAKOTA.

Black Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.; R. P. IMES, Forest Assistant, Deadwood, S. Dak.; JOHN F. SMITH, Forest Ranger, Custer, S. Dak.

Cave Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Slim Buttes Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

UTAH.

Aquarius Forest Reserve—GEO. H. BARNEY, Forest Supervisor, Escalante, Utah.

Fish Lake Forest Reserve—C. T. BALLE, Forest Supervisor, Fremont, Utah.

Grantsville Forest Reserve—CHARLES F. COOLEY, Forest Supervisor, Grantsville, Utah.

Logan Forest Reserve—J. F. SQUIRES, Forest Supervisor, Logan, Utah.

Manti Forest Reserve—A. W. JENSEN, Forest Supervisor, Ephraim, Utah.

Payson Forest Reserve—DAN S. PACK, Forest Supervisor, Payson, Utah.

Salt Lake Forest Reserve—JAMES E. MEEKS, Forest Supervisor, Murray, Utah.

Sevier Forest Reserve—BEAUREGARD KENNER, Forest Ranger in charge, Panguiitch, Utah.

Uintah Forest Reserve—D. S. MARSHALL, Forest Supervisor, Kamas, Utah.

WASHINGTON.

Mount Ranier Forest Reserve—G. F. ALLEN, Forest Supervisor, Orting, Wash.; Forest Rangers, JOHN M. SCHMITZ, Vance, Wash., and CHAS. E. RANDLE, Fairfax, Wash.

Olympic Forest Reserve—FRED HANSON, Forest Supervisor, Hoodspout, Wash.

Washington Forest Reserve (Western Division)—G. B. COLEMAN, Forest Supervisor, Sumas, Wash.

Washington Forest Reserve (Eastern Division)—G. W. MILHAM, Forest Supervisor, Chelan, Wash.

WYOMING.

Big Horn Forest Reserve—W. E. JACKSON, Forest Supervisor, Bighorn, Wyo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.

Yellowstone Forest Reserve (Wind River Division)—ZEPH JONES, Forest Supervisor, Kendall, Wyo.

Yellowstone Forest Reserve (Teton Division)—ROBERT E. MILLER, Forest Supervisor, Jackson, Wyo.; CLARENCE N. WOODS, Forest Ranger, Jackson, Wyo.

Yellowstone Forest Reserve (Shoshone Division)—W. H. PEARCE, Wapiti, Wyo.; HARRY W. THURSTON, Forest Ranger, Marquette, Wyo.



United States Department of Agriculture,
FOREST SERVICE,

GIFFORD PINCHOT, Forester.

FIELD PROGRAMME FOR AUGUST, 1905.

A schedule of field work and assignments in the Forest Service is issued monthly during the field season. The names of members whose assignments are indefinite and reference to projects for which plans have not been matured are necessarily omitted.

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Work conducted under the direction of the Forester is designated (F); Dendrology (D); Forest Management (M); Forest Products (P); Forest Extension (E); Forest Reserves (R).

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GEO. B. SUDWORTH, *Chief of Dendrology*.

THOMAS H. SHERRARD, *Chief of Forest Management*.

WILLIAM L. HALL, *Chief of Forest Products*.

E. A. STERLING, *Chief of Forest Extension*.

F. E. OLMS TED, *Chief of Section of Forest Reserves*.

JAMES B. ADAMS, *Chief of Records and Special Fiscal Agent*.

FIELD WORK.

CALIFORNIA.

(D) New and little-known eucalypts for the United States—Prof. A. J. MCCLATCHIE; permanent address, Gardena, Cal.

(D) Study of tanbark oaks of Pacific coast—Prof. W. L. JEPSON; permanent address, Berkeley, Cal.

(D) Special studies of California trees, four-leaf pine, Torrey pine, Bishop pine—Prof. W. R. DUDLEY; permanent address, Stanford University, Cal.

(D) Study of native and exotic acacias—Prof. A. V. STUBENRAUCH; permanent address, Berkeley, Cal.

(M) Inspection of working plans for forest reserves—W. B. GREELEY, Fresno, Cal.

(M) Fire protection plan for the McCloud River Lumber Company—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.

(M) Study of the white fir—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.; assistants, W. G. DURBIN, W. H. KEMPFER, and I. F. ELDREDGE.

(E) Study of stream flow on the Yuba River watershed—J. D. GUTHRIE, Yuba City, Cal.

(E) Study of results of forest planting—H. O. STABLER, Occidental Hotel, San Francisco, Cal.

(E) Care of Government forest nursery, and preparation of a planting plan for the Santa Barbara Forest Reserve—G. W. PEAVY, Santa Barbara, Cal.; assistant, E. C. CLIFFORD.

(E) Care of Government forest nursery, San Gabriel Forest Reserve—T. P. LUKENS, Pasadena, Cal.; assistant, A. T. SEARLE.

(E) Preliminary examination for a planting plan in the Modoc and Warner Mountain forest reserves—S. J. FLINTHAM, Alturas, Cal.

(P) Timber tests of western yellow pine, in cooperation with University of California—ROLF THELEN, Berkeley, Cal.

COLORADO.

(E) Care and extension of Government nurseries in the Pikes Peak Forest Reserve—F. W. BESLEY, Clyde, Colo.; assistant, B. R. H. d'ALLEMAND.

(E) Preparation of a planting plan for the Gunnison Forest Reserve—S. B. DETWILER, Crested Butte, Colo.; assistant, C. H. SELLERS.

CONNECTICUT.

(P) Timber tests, with special reference to the influence of rate of application of load on strength of longleaf pine, chestnut, and red spruce, in cooperation with Yale University—Prof. J. W. TOUMEY and H. D. TIEMANN, Yale Forest School, New Haven, Conn.; assistant, CORNELIUS BARRY.

(P) Experiments of a chemical nature germane to the utilization of wood—A. L. DEAN, Sheffield Scientific School, Yale University, New Haven, Conn.; assistant, H. S. BRISTOL.

FLORIDA.

(D) Improved methods of turpentining, experimental pine forests in cooperation with the Hillman-Sutherland Land Company—FRANK KLARPP, Green Cove Springs, Fla.

GEORGIA.

(P) Oversight of setting treated poles in telephone line between Savannah and Meldrim—FRANK TOMPKINS, Pulaski House, Savannah, Ga.

HAWAII.

(E) Examination of lands for insular forest reserves—R. S. HOSMER, Honolulu, Hawaii.

IDAHO.

(E) Preliminary examination for planting plan on the Malad Forest Reserve—W. J. GARDNER, Weston, Oneida Co., Idaho; assistant, J. DEWITT WARNER.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—F. W. REED, Moscow, Idaho.

INDIANA.

(P) Timber testing at Lafayette, Ind., in cooperation with Purdue University—H. D. HARTLEY, Lafayette, Ind.; assistants, O. P. M. GOSS, T. A. NEWLIN, and T. P. KNAPP.

(P) Study of methods of kiln-drying lumber—FREDERICK DUNLAP, Hotel Claypool, Indianapolis, Ind.

IOWA.

(E) Study of planted groves in Iowa—H. P. BAKER, Ames, Iowa; assistants, W. H. VON BAYER, R. F. BALTHIS, G. L. MARTIN, C. A. KUPFER, and E. O. SIECKE.

(P) Experiments in the preservative treatment of fence posts—R. W. AYRES, Ames, Iowa.

KENTUCKY.

(M) Working plan for the Interstate Investment Company, in cooperation with the company—G. M. HOMANS, headquarters, Crab Orchard, Va.; assistants, F. E. AMES, J. BENTLEY, Jr., W. H. WEBER, and J. M. LEWIS.

MARYLAND.

(P) Experiments in seasoning chestnut telephone poles—M. SMITH, Walkers Switch, Md.

MASSACHUSETTS.

(P) Experiments to determine the value of various woods for pulp—A. D. LITTLE, 93 Broad street, Boston, Mass.

MICHIGAN.

(M) Working plan for F. Newhall & Sons, on North Manitou Island, in cooperation with the company—S. J. RECORD, North Manitou Island, Mich.; assistants, D. RODMAN and J. E. KEACH.

(P) Experiments in seasoning hemlock and tamarack cross-ties, in cooperation with the Chicago and Northwestern and Wisconsin Central Railroad Companies—H. A. PAUL, New Ludington Hotel, Escanaba, Mich.; assistant, C. S. SMITH.

(P) Experiments in seasoning and rafting cedar and tamarack telephone poles, in cooperation with the State and with several telegraph, telephone, and railroad companies—C. E. FEAGIN, New Ludington Hotel, Escanaba, Mich.

MINNESOTA.

(M) Investigation of tie production for the Northern Pacific Railway Company, in cooperation with the company—H. H. CHAPMAN, 593 Holly avenue, St. Paul, Minn.; assistants, L. L. WHITE and H. S. SACKETT.

MONTANA.

(M) Inspection of working plans for forest reserves in Montana and Wyoming—P. G. REDINGTON, Saratoga, Wyo.

(E) Preparation of planting plan for a forest park, for the city of Helena—F. G. MILLER, Grandon Hotel, Helena, Mont.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—R. B. WILSON, Lewistown, Mont.; R. V. R. REYNOLDS, Missoula, Mont.

NEBRASKA.

(E) Care of Government nursery, Dismal River Forest Reserve—C. A. SCOTT, Halsey, Nebr.; assistants, W. H. MAST, A. E. OMAN, and F. J. PHILLIPS.

NEW HAMPSHIRE.

(M) Study of woodlot and forest conditions in southern New Hampshire, in cooperation with the State—C. A. LYFORD, Cheshire House, Keene, N. H.; assistants, K. W. WOODWARD, A. T. BOISEN, H. C. NEEL, C. A. GALARNEAU, and A. B. RECKNAGEL.

NEW MEXICO.

(E) Care of Government forest nursery, and preparation of planting plan for portions of the new addition to the Gila River Forest Reserve—W. R. MATTOON, Fort Bayard, N. Mex.; assistants, A. S. PECK, T. J. TAYLOR, and J. C. BLUMER.

(E) Inspection of forest planting in the Gila River Forest Reserve—L. C. MILLER, Fort Bayard, N. Mex.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, Alamogordo, N. Mex.; W. D. HAYES, Alamogordo, N. Mex.; CLYDE LEAVITT, Benson, Ariz.

NEW YORK.

(M) Working plan for Delaware and Hudson Company, in cooperation with the company—A. W. COOPER, Riverside Inn, Saranac Lake, N. Y.; assistants, E. D. FLETCHER, R. Y. STUART, and D. N. ROGERS.

(M) Working plans for woodland on country estates, in cooperation with land-owners—F. L. PRAY, Hyde Park, N. Y.; assistants, H. F. STUDLEY and F. M. PATTON.

(M) Study of popple—W. G. WEIGLE, Saranac Lake, N. Y.

NORTH CAROLINA.

(M) Preparation of volume tables for chestnut extract wood—J. S. HOLMES, Swannanoa, N. C.; assistants, A. D. READ, J. A. HOWARTH, E. S. BRYANT, B. MOORE, and R. L. FROMME.

(P) Experiments in seasoning juniper and cypress telephone poles—J. M. NELSON, Jr., Wilmington, N. C.

OREGON.

(D) Government forest exhibit at Lewis and Clark Centennial Exposition—Representative in charge, G. B. LULL, Portland, Oreg.

(M) Plan for the protection of the forest lands of the Southern Pacific Railway Company—M. B. PRATT, headquarters, Occidental Hotel, San Francisco, Cal.

(E) Inspection of work in forest extension—E. A. STERLING, Portland Hotel, Portland, Oreg..

(P) Experimental tests of timber at Lewis and Clark Centennial Exposition—Prof. L. E. HUNT, Portland, Oreg.

SOUTH CAROLINA.

(P) Tests of loblolly pine at mill of the E. P. Burton Lumber Company—H. S. BETTS, P. O. Box 494, Charleston, S. C.; assistant, M. CLINE.

TEXAS.

(D) Study of forest conditions of the Big Thicket country—Prof. W. L. BRAY, Austin, Tex.

UTAH.

(E) Preparation of planting plan for the Salt Lake Forest Reserve—J. M. FETHEROLF, Salt Lake City, Utah; assistant, W. B. HADLEY.

VIRGINIA.

(P) Experiments in grading and treating cross-arms, in cooperation with the American Telephone and Telegraph Company—W. F. SHERFESEE, care Norfolk Creosoting Works, Norfolk, Va.

WEST VIRGINIA.

(P) Experiments in seasoning chestnut telephone poles—H. F. WEISS, Forest Service, Washington, D. C.

WYOMING.

(M) Working plan for a portion of the Medicine Bow Forest Reserve—H. S. MEEKHAM, Keystone, Wyo.; assistants, E. H. CLAPP, C. J. BUCK, J. REBMANN, P. T. HARRIS, W. B. PIPER, I. T. WORTHLEY, and M. SCHAAF.

(M) Inspection of timber cuttings on the forest reserves—T. H. SHERRARD, Saratoga, Wyo.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—T. F. RIXON, Lander, Wyo.

REGIONAL STUDIES.

GENERAL.

(P) Supervision of work in Forest Products—W. L. HALL, St. Paul, Minn., until August 15; Sand Point, Idaho, until August 31.

(P) Collection of statistics of forest products for year 1905—R. S. KELLOGG, Minneapolis, Minn., until August 15; Seattle, Wash., until August 31; GEO. K. SMITH, Equitable Building, St. Louis, Mo.

(P) Study of specifications for the grading of lumber—E. R. HODSON, Washington, D. C.

(P) Supervision of seasoning experiments—HENRY GRINNELL, Thorndale, Pa., and Dover, N. J.

OHIO VALLEY.

(E) Study of possibilities of forest planting, with special reference to the black locust—Prof. S. N. SPRING, Freeport, Pa.

EASTERN STATES.

(M) Inspection of field work in Forest Management—A. K. CHITTENDEN, Keene, N. H.

(M) Study of the Potomac River watershed—W. W. ASHE, Wallman, Md.

(M) Preliminary examinations of timberlands, in cooperation with landowners—T. S. WOOLSEY, Jr., Katahdin Iron Works, Maine.

(M) Study of scrub pine—W. D. STERRETT, Washington, D. C.

(M) Woodlot examinations, in cooperation with landowners—W. BRADFIELD, Wauseon, Ohio.

(E) Study of railroad forest plantations—R. C. BRYANT, Washington, D. C.

(E) Preliminary examinations for planting plans, in cooperation with landowners—J. F. BOND, Washington, D. C.

(P) Study of methods of utilizing the waste of sawmills—J. FRED BAKER, Washington, D. C.

(P) Study of woods used in the cooperage industry—J. S. LEVISON and H. M. HALE, Washington, D. C.

(P) Study of woods used in the vehicle and implement industry—H. B. HOLROYD, Washington, D. C.

(P) Study of woods used for street paving—C. L. HILL, Washington, D. C.

(P) Study of woods used for box and basket purposes—J. P. WENTLING, Washington, D. C.

WESTERN STATES.

(M) Study of forest conditions in Utah and Colorado—E. E. CARTER, Ephraim, Utah.

(P) Seasoning experiments on lodgepole pine and western hemlock cross-ties, Tacoma and Pasco, Wash., and Sand Point, Idaho, in cooperation with the Northern Pacific Railway Company—H. B. EASTMAN, 117 South C street, Tacoma, Wash.

FOREST RESERVES.

E. T. ALLEN, *Forest Inspector*, Sacramento, Cal.

A. F. POTTER, *Forest Inspector*, Afton, Wyo.

E. S. BRUCE, *Forest Inspector*, Big Horn, Wyo.

R. H. CHARLTON, *Forest Inspector*, Los Angeles, Cal.

H. D. LANGILLE, *Forest Inspector*, Hood River, Oreg.

A. A. ANDERSON, *Special Forest Inspector*, Cody, Wyo.

R. E. BENEDICT, *Forest Inspector*, Albuquerque, N. Mex.

SMITH RILEY, *Forest Inspector*, Denver, Colo.

J. H. HATTON, *Forest Inspector*, Denver, Colo.

ELERS KOCH, *Forest Inspector*, Bozeman, Mont.

F. A. FENN, *Forest Superintendent*, Lewiston, Idaho.

D. B. SHELLER, *Forest Superintendent*, Tacoma, Wash.

ALASKA.

Afognak and Alexander Archipelago forest reserves—W. A. LANGILLE, Forest Inspector in charge of reserves in Alaska, Ketchikan, Alaska.

ARIZONA.

Black Mesa Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.; WM. H. REED, Forest Ranger, Showlow, Ariz.

Chiricahua Forest Reserve—C. T. McGLOONE, Forest Supervisor, Paradise, Ariz.

Grand Canyon Forest Reserve (Northern Division)—LORUM PRATT, Forest Supervisor, Fredonia, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.

Grand Canyon Forest Reserve (Southern Division)—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; PATRICK A. FENTON, Forest Ranger, Grand Canyon, Ariz.

Mount Graham Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.

Pinal Mountains Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.

Prescott Forest Reserve—F. C. W. POOLER, Forest Ranger in charge, Prescott, Ariz.; D. D. BRONSON, Forest Assistant, Prescott, Ariz.

San Francisco Mountains Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.; BENJAMIN H. CROW, Forest Ranger, Williams, Ariz.

Santa Rita Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Santa Catalina Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

CALIFORNIA.

Diamond Mountain Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.

Klamath Forest Reserve—R. P. L. BIGELOW, Forest Ranger in charge, Weaverville, Cal.

Lake Tahoe Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.

Lassen Peak Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

Modoc Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

Plumas Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

San Bernardino Forest Reserve—R. H. CHARLTON, Forest Inspector in charge, Los Angeles, Cal.; NELS O. TORSTENSON, Forest Ranger, San Bernardino, Cal.

San Gabriel Forest Reserve—R. H. CHARLTON, Forest Inspector in charge, Los Angeles, Cal.

San Jacinto Forest Reserve—J. R. BELL, Forest Supervisor, Valle Vista, Cal.

Santa Barbara Forest Reserve—W. M. SLOSSON, Forest Supervisor, Santa Barbara, Cal.; STEPHEN H. DOUGLASS, Forest Ranger, Ventura, Cal.

Sierra Forest Reserve (Northern Division)—C. H. SHINN, Forest Supervisor, Northfork, Cal.; ERNEST BRITTON, Forest Ranger, Three Rivers, Cal.; H. J. BROWN, Forest Assistant, Northfork, Cal.

Sierra Forest Reserve (Southern Division)—HARRISON WHITE, Forest Supervisor, Visalia, Cal.

Stanislaus Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.; JOHN C. WELLS, Forest Ranger, Echo, Cal.

Trabuco Canyon Forest Reserve—J. R. BELL, Forest Supervisor, Valle Vista, Cal.

Trinity Forest Reserve—R. P. L. BIGELOW, Forest Ranger in charge, Weaverville, Cal.

Warner Mountains Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

COLORADO.

Battlement Mesa Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.; T. D. WOODBURY, Forest Assistant, Mesa, Colo.

Cochetopa Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.; W. J. MORRILL, Forest Assistant, Moffatt, Colo.

Gunnison Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.

Leadville Forest Reserve—JAS. H. CLARKE, Forest Supervisor, Denver, Colo.; WILLIAM W. HOOPER, Forest Ranger, Bailey, Colo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.; J. H. MULLISON, Forest Ranger, Walden, Colo.

Pikes Peak Forest Reserve—JAMES H. CLARKE, Forest Supervisor, Denver, Colo.; W. D. EDMONSTON, Forest Ranger, Larkspur, Colo.

San Isabel Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.

Wet Mountains Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.

White River Forest Reserve—W. L. VEATCH, Forest Supervisor, Buford, Colo.

IDAHO.

Bitter Root Forest Reserve—CASSIUS M. DAY, Forest Supervisor, Kooskia, Idaho; J. E. BARTON, Forest Assistant, Kooskia, Idaho.

Cassia Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

Henrys Lake Forest Reserve—HOMER FENN, Forest Ranger in charge, St. Anthony, Idaho; M. L. ERICKSON, Forest Assistant, St. Anthony, Idaho.

Priest River Forest Reserve—B. F. McCONNELL, Forest Supervisor, Williams, Idaho; L. VON WERNSTEDT, Forest Assistant, Williams, Idaho.

Pocatello Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

MONTANA.

Bitter Root Forest Reserve (Montana Division)—E. A. SHERMAN, Forest Supervisor, Hamilton, Mont.

Gallatin Forest Reserve—MICHAEL LANGOHR, Forest Supervisor, Bozeman, Mont.

Highwood Mountains Forest Reserve—JAMES G. THAIN, Forest Supervisor, Highwood, Mont.

Lewis and Clark Forest Reserve (Northern Division)—F. N. HAINES, Forest Supervisor, Kalispell, Mont.

Lewis and Clark Forest Reserve (Southern Division)—A. M. BLISS, Forest Supervisor, Ovando, Mont.; D. G. KINNEY, Forest Assistant, Ovando, Mont.; PAGE S. BUNKER, Forest Ranger, Ovando, Mont.

Little Belt Forest Reserve—IRA E. TODD, Forest Supervisor, Neihart, Mont.

Madison Forest Reserve—J. B. SEELY, Forest Supervisor, Virginia City, Mont.

Yellowstone Forest Reserve (Absaroka Division)—E. C. RUSSELL, Forest Supervisor, Tony, Mont.

MINNESOTA.

Minnesota Forest Reserve—G. E. MARSHALL, Forest Ranger in charge, Cass Lake, Minn.; Forest Rangers, W. R. MCKINNON, MARK BURNS, GEORGE FARLEY, E. M. HAMILTON, W. E. LAFOUNTAIN, and R. G. GIFFIN, Cass Lake, Minn.

NEW MEXICO.

Gila River Forest Reserve—R. C. MCCLURE, Forest Supervisor, Silver City, N. Mex.; A. O. WAHA, Forest Assistant, Silver City, N. Mex.; RUFUS K. WADE, Forest Ranger, Mogollon, N. Mex.

Lincoln Forest Reserve—CLEMENT HIGHTOWER, Forest Supervisor, Capitan, N. Mex.; A. C. RINGLAND, Forest Assistant, Capitan, N. Mex.

Pecos River Forest Reserve—L. F. KNEIPP, Forest Ranger in charge, Santa Fe, N. Mex.

OKLAHOMA.

Wichita Forest Reserve—E. F. MORRISSEY, Forest Supervisor, Cache, Okla.

OREGON.

Ashland Forest Reserve—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.

Baker City Forest Reserve—S. S. TERRELL, Forest Supervisor, Sumpter, Oreg.

Bull Run Forest Reserve—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.

Cascade Forest Reserve (Northern Division)—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.; A. E. COHOON, Forest Assistant, Marmot, Oreg.; MILTON J. ANDERSON, Forest Ranger, The Dalles, Oregon.

Cascade Forest Reserve (Southern Division)—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.; A. E. COHOON, Forest Assistant, Roseburg, Oreg.; ADDISON S. IRELAND, Forest Ranger, Roseburg, Oreg.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.

SOUTH DAKOTA.

Black Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.; R. P. IMES, Forest Assistant, Deadwood, S. Dak.; JOHN F. SMITH, Forest Ranger, Custer, S. Dak.

Cave Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Short Pine Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Slim Buttes Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

UTAH.

Aquarius Forest Reserve—GEO. H. BARNEY, Forest Supervisor, Escalante, Utah.

Fish Lake Forest Reserve—C. T. BALLE, Forest Supervisor, Fremont, Utah.

Grantsville Forest Reserve—CHARLES F. COOLEY, Forest Supervisor, Grantsville, Utah.

Logan Forest Reserve—J. F. SQUIRES, Forest Supervisor, Logan, Utah.

Manti Forest Reserve—A. W. JENSEN, Forest Supervisor, Ephraim, Utah.

Payson Forest Reserve—DAN S. PACK, Forest Supervisor, Payson, Utah.

Salt Lake Forest Reserve—JAMES E. MEEKS, Forest Supervisor, Murray, Utah.

Sevier Forest Reserve—BEAUREGARD KENNER, Forest Ranger in charge, Panguitch, Utah.

Uintah Forest Reserve—D. S. MARSHALL, Forest Supervisor, Kamas, Utah.

WASHINGTON.

Mount Rainier Forest Reserve—G. F. ALLEN, Forest Supervisor, Orting, Wash.; S. G. SMITH, Forest Assistant, Orting, Wash.; and CHAS. E. RANDLE, Forest Ranger, Fairfax, Wash.

Olympic Forest Reserve—FRED HANSON, Forest Supervisor, Hoodspoint, Wash.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.

Washington Forest Reserve (Western Division)—G. B. COLEMAN, Forest Supervisor, Sumas, Wash.

Washington Forest Reserve (Eastern Division)—G. W. MILHAM, Forest Supervisor, Chelan, Wash.

WYOMING.

Big Horn Forest Reserve—W. E. JACKSON, Forest Supervisor, Bighorn, Wyo.; G. S. CLELAND, Forest Assistant, Big Horn, Wyo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.

Yellowstone Forest Reserve (Wind River Division)—ZEPH JONES, Forest Supervisor, Kendall, Wyo.

Yellowstone Forest Reserve (Teton Division)—ROBERT E. MILLER, Forest Supervisor, Jackson, Wyo.; G. H. CECIL, Forest Assistant, Jackson, Wyo.; CLARENCE N. WOODS, Forest Ranger, Jackson, Wyo.

Yellowstone Forest Reserve (Shoshone Division)—W. H. PEARCE, Forest Supervisor, Wapiti, Wyo.; HARRY W. THURSTON, Forest Ranger, Marquette, Wyo.

With deep regret, announcement is made of the death of Mr. WILLIAM F. HUBBARD, a Forest Assistant in the Forest Service, on July 17.



United States Department of Agriculture,
FOREST SERVICE,

GIFFORD PINCHOT, Forester.

FIELD PROGRAMME FOR SEPTEMBER, 1905.

A schedule of field work and assignments in the Forest Service is issued monthly during the field season. The names of members whose assignments are indefinite and reference to projects for which plans have not been matured are necessarily omitted.

It is requested that the members of the Forest Service cooperate in making this schedule complete and accurate. Information concerning errors or omissions, and changes of project or of address for the following month, should be sent by members to the offices of their respective chiefs not later than the 20th of the month.

Unless the address of a member is given in this schedule or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

Work conducted under the direction of the Forester is designated (F); Dendrology (D); Forest Management (M); Forest Products (P); Forest Extension (E); Forest Reserves (R).

ADMINISTRATION.

GIFFORD PINCHOT, *Forester.*

OVERTON W. PRICE, *Associate Forester.*

GEO. B. SUDWORTH, *Chief of Dendrology.*

THOMAS H. SHERRARD, *Chief of Forest Management.*

WILLIAM L. HALL, *Chief of Forest Products.*

E. A. STERLING, *Chief of Forest Extension.*

F. E. OLMS TED, *Chief of Section of Forest Reserves.*

JAMES B. ADAMS, *Chief of Records and Special Fiscal Agent.*

FIELD WORK.

CALIFORNIA.

(D) New and little-known eucalypts for the United States—Prof. A. J. MCCLATCHIE; permanent address, Gardena, Cal.

(D) Study of tanbark oaks of Pacific coast—Prof. W. L. JEPSON; permanent address, Berkeley, Cal.

(D) Special studies of California trees, four-leaf pine, Torrey pine, Bishop pine—Prof. W. R. DUDLEY; permanent address, Stanford University, Cal.

(D) Study of native and exotic acacias—Prof. A. V. STUBENRAUCH; permanent address, Berkeley, Cal.

(M) Inspection of working plans for forest reserves—W. B. GREELEY, 180 Perry street, Oakland, Cal.

(M) Fire protection plan for the McCloud River Lumber Company—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.

(M) Study of the white fir—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.; assistants, M. B. PRATT, W. G. DURBIN, W. H. KEMPFER, and I. F. ELDREDGE.

(E) Study of stream flow on the Yuba River watershed—J. D. GUTHRIE, Occidental Hotel, San Francisco, Cal.

(E) Inspection of work in Forest Extension—E. A. STERLING, Occidental Hotel, San Francisco, Cal.

(E) Study of results of forest planting—H. O. STABLER, Occidental Hotel, San Francisco, Cal.

(E) Care of Government forest nursery, and preparation of a planting plan for the Santa Barbara Forest Reserve—G. W. PEAVY, Santa Barbara, Cal.; assistant, E. C. CLIFFORD.

(E) Care of Government forest nursery, San Gabriel Forest Reserve—T. P. LUKENS, Pasadena, Cal.; assistant, A. T. SEARLE.

(E) Preliminary examination for a planting plan in the Modoc and Warner Mountain forest reserves—S. J. FLINTHAM, Alturas, Cal.

(P) Timber tests of western yellow pine, in cooperation with University of California—ROLF THELEN, Berkeley, Cal.

COLORADO.

(E) Care and extension of Government nurseries in the Pikes Peak Forest Reserve—F. W. BESLEY, Clyde, Colo.; assistant, B. R. H. D'ALLEMAND.

(E) Preparation of a planting plan for the Gunnison Forest Reserve—S. B. DETWILER, Crested Butte, Colo.; assistant, C. H. SELLERS.

CONNECTICUT.

(P) Timber tests, with special reference to the influence of rate of application of load on strength of longleaf pine, chestnut, and red spruce, in cooperation with Yale University—Prof. J. W. TOUMEY and H. D. TIEMANN, Yale Forest School, New Haven, Conn.; assistant, CORNELIUS BARRY.

(P) Experiments of a chemical nature germane to the utilization of wood—A. L. DEAN, Sheffield Scientific School, Yale University, New Haven, Conn.; assistant, H. S. BRISTOL.

FLORIDA.

(D) Improved methods of turpentining, experimental pine forests in cooperation with the Hillman-Sutherland Land Company—FRANK KLARPP, Green Cove Springs, Fla.

HAWAII.

(E) Examination of lands for insular forest reserves—R. S. HOSMER, Honolulu, Hawaii.

IDAHO.

(E) Preliminary examination for planting plan on the proposed Malad Forest Reserve—W. J. GARDNER, Weston, Oneida Co., Idaho; assistant, J. DEWITT WARNER.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—F. W. REED, Moscow, Idaho.

INDIANA.

(P) Timber testing at Lafayette, Ind., in cooperation with Purdue University—H. D. HARTLEY, Lafayette, Ind.; assistants, O. P. M. GOSS and T. A. NEWLIN.

(P) Study of methods of kiln-drying lumber—FREDERICK DUNLAP, Hotel Stratford, Chicago, Ill.

IOWA.

(E) Study of planted groves in Iowa—H. P. BAKER, Ames, Iowa; assistants, W. H. VON BAYER, R. F. BALTHIS, G. L. MARTIN, C. A. KUPFER, and E. O. SIECKE.

(P) Experiments in the preservative treatment of fence posts—R. W. AYRES, Lillie Hotel, Los Angeles, Cal.

KANSAS.

(E) Establishment of nursery for Garden City Forest Reserve—C. A. Scott, Garden City, Kans.

KENTUCKY.

(M) Working plan for the Interstate Investment Company, in cooperation with the company—G. M. HOMANS, headquarters, Crab Orchard, Va.; assistants, F. E. AMES, J. BENTLEY, JR., W. H. WEBER, W. C. LATANE, JR., and J. M. LEWIS.

MAINE.

(M) Study of popple—W. G. WEIGLE, General Delivery, Portland, Me.

MARYLAND.

(P) Experiments in seasoning chestnut telephone poles—M. SMITH, JR., and H. F. WEISS, Parkton, Md.

MASSACHUSETTS.

(P) Experiments to determine the value of various woods for pulp—A. D. LITTLE, 93 Broad street, Boston, Mass.

MICHIGAN.

(M) Working plan for F. Newhall & Sons, on North Manitou Island, in cooperation with the company—S. J. RECORD, North Manitou Island, Mich.; assistants, D. RODMAN and J. E. KEACH.

(P) Experiments in seasoning hemlock and tamarack cross-ties, in cooperation with the Chicago and Northwestern and Wisconsin Central Railroad Companies—H. A. PAUL, New Ludington Hotel, Escanaba, Mich.; assistant, C. S. SMITH.

(P) Experiments in seasoning and rafting cedar and tamarack telephone poles, in cooperation with the State and with several telegraph, telephone, and railroad companies—C. E. FEAGIN, New Ludington Hotel, Escanaba, Mich.

MINNESOTA.

(M) Investigation of tie production for the Northern Pacific Railway Company, in cooperation with the company—H. H. CHAPMAN, 593 Holly avenue, St. Paul, Minn.; assistants, L. L. WHITE and H. S. SACKETT, Bemidji, Minn.

(E) Collection of seed for forest nurseries—J. F. BOND, Washington, D. C.

MISSISSIPPI.

(E) Study of forest problems, in cooperation with the State Agricultural and Mechanical College—GEO. L. CLOTHIER, Agricultural College, Miss.

MONTANA.

(M) Inspection of working plans for forest reserves in Montana and Wyoming—P. G. REDINGTON, Saratoga, Wyo.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—R. B. WILSON and CLYDE LEAVITT, Neihart, Mont.; R. V. R. REYNOLDS, Missoula, Mont.

NEBRASKA.

(E) Care of Government nursery, Dismal River Forest Reserve—C. A. SCOTT, Halsey, Nebr.; assistants, W. H. MAST, A. E. OMAN, and F. J. PHILLIPS.

NEW HAMPSHIRE.

(M) Study of woodlot and forest conditions in southern New Hampshire, in cooperation with the State—C. A. LYFORD, Cheshire House, Keene, N. H.; assistants, K. W. WOODWARD, A. T. BOISEN, H. C. NEEL, C. A. GALARNEAU, and A. B. RECKNAGEL.

(M) Mill scale study of second-growth white pine—L. MARGOLIN, Hotel Weirs, Weirs, N. H.

NEW MEXICO.

(E) Care of Government forest nursery, and preparation of planting plan for portions of the new addition to the Gila River Forest Reserve—W. R. MATTOON, Fort Bayard, N. Mex.; assistants, A. S. PECK, T. J. TAYLOR, and J. C. BLUMER.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, Alamogordo, N. Mex.; W. D. HAYES, Alamogordo, N. Mex.

NEW YORK.

(M) Working plan for Delaware and Hudson Company, in cooperation with the company—A. W. COOPER, Riverside Inn, Saranac Lake, N. Y.; assistants, E. D. FLETCHER, R. Y. STUART, and D. N. ROGERS.

(M) Working plans for woodland on country estates, in cooperation with land-owners—J. G. PETERS, Hyde Park, N. Y.; assistants, F. L. PRAY, H. F. STUDLEY, and F. M. PATTON.

NORTH CAROLINA.

(M) Preparation of volume tables for chestnut extract wood—J. S. HOLMES, Swannanoa, N. C.; assistants, J. A. HOWARTH, R. L. FROMME, and W. W. WHITE, Swannanoa, N. C.; E. S. BRYANT, R. F. D., Jonesboro, Tenn.; A. D. READ, Saginaw, N. C.; B. MOORE, Willits, N. C.

NORTH DAKOTA.

(E) Preparation of planting plan, in cooperation with State College—F. G. MILLER, Fargo, N. Dak., until September 15.

OREGON.

(D) Government forest exhibit at Lewis and Clark Centennial Exposition—Representative in charge, G. B. LULL, Portland, Oreg.

(P) Experimental tests of timber at Lewis and Clark Centennial Exposition—Prof. L. E. HUNT and J. F. KNAPP, Portland, Oreg.

SOUTH CAROLINA.

(P) Tests of loblolly pine at mill of the E. P. Burton Lumber Company—H. S. BETTS, P. O. Box 494, Charleston, S. C.; assistant, M. CLINE.

TEXAS.

(D) Study of forest conditions of the Big Thicket country—Prof. W. L. BRAY, Austin, Tex.

UTAH.

(E) Preparation of planting plan for the Salt Lake Forest Reserve—J. M. FETHEROLF, Salt Lake City, Utah; assistant, W. B. HADLEY.

VIRGINIA.

(P) Experiments in grading and treating cross-arms, in cooperation with the American Telephone and Telegraph Company—W. F. SHERFESEE, care Norfolk Creosoting Works, Norfolk, Va.

WASHINGTON.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—JOHN B. LIEBERG, North Yakima, Wash.

WYOMING.

(M) Working plan for a portion of the Medicine Bow Forest Reserve—H. S. MEEKHAM, Keystone, Wyo.; assistants, E. H. CLAPP, C. J. BUCK, J. REBMANN, P. T. HARRIS, W. B. PIPER, I. T. WORTHLEY, and M. SCHAAF.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—T. F. RIXON, Lander, Wyo.

REGIONAL STUDIES.

GENERAL.

(P) Collection of statistics of forest products for year 1905—R. S. KELLOGG, Portland, Oreg., until September 2; San Francisco, Cal., until September 10; GEO. K. SMITH, Equitable Building, St. Louis, Mo.

(P) Study of specifications for the grading of lumber—E. R. HODSON, Washington, D. C.

(P) Supervision of seasoning experiments—HENRY GRINNELL, Washington, D. C.

OHIO VALLEY.

(E) Study of possibilities of forest planting, with special reference to the black locust—Prof. S. N. SPRING, Wilkinsburg, Pa.

EASTERN STATES.

(M) Study of the Potomac River watershed—W. W. ASHE, Petersburg, W. Va.

(M) Preliminary examinations of timberlands, in cooperation with landowners—T. S. WOOLSEY, JR., Washington, D. C.

(M) Study of scrub pine—W. D. STERRETT, Washington, D. C.

(E) Study of railroad forest plantations—R. C. BRYANT, Washington, D. C.

(P) Study of woods used in the cooperage industry—J. S. LEVISON and H. M. HALE, Washington, D. C.

(P) Study of woods used in the vehicle and implement industry—H. B. HOLROYD, Lafayette, Ind.

(P) Study of woods used for street paving—C. L. HILL, Washington, D. C.

(P) Study of woods used for box and basket purposes—J. P. WENTLING, Washington, D. C.

(P) Oversight of setting treated poles in telephone line between Warren, Pa., and Gowanda, N. Y.—FRANK TOMPKINS and J. M. NELSON, JR., New Struther's Hotel, Warren, Pa.

MIDDLE WESTERN STATES.

(M) Woodlot examinations, in cooperation with landowners—W. BRADFIELD, Washington, D. C.

WESTERN STATES.

(M) Inspection of timber cuttings on the forest reserves—T. H. SHERRARD, Saratoga, Wyo.

(M) Study of forest conditions in Utah and Colorado—E. E. CARTER, Aspen, Colo.

(P) Seasoning experiments on yellow fir, tamarack, and cedar cross-ties, Tacoma and Pasco, Wash., and Sand Point, Idaho, in cooperation with the Northern Pacific Railway Company—H. B. EASTMAN, 117 South G street, Tacoma, Wash.

FOREST RESERVES.

E. T. ALLEN, *Forest Inspector*, Sacramento, Cal.

A. F. POTTER, *Forest Inspector*, Lander, Wyo.

E. S. BRUCE, *Forest Inspector*, Flagstaff, Ariz.

R. H. CHARLTON, *Forest Inspector*, Los Angeles, Cal.

A. A. ANDERSON, *Special Forest Inspector*, Cody, Wyo.

R. E. BENEDICT, *Forest Inspector*, Prescott, Ariz.

SMITH RILEY, *Forest Inspector*, Denver, Colo.

J. H. HATTON, *Forest Inspector*, Salt Lake City, Utah.

ELERS KOCH, *Forest Inspector*, Bozeman, Mont.

F. A. FENN, *Forest Superintendent*, Boise, Idaho.

D. B. SHELLER, *Forest Superintendent*, Tacoma, Wash.

ALASKA.

Afognak and Alexander Archipelago forest reserves—W. A. LANGILLE, Forest Inspector in charge of reserves in Alaska, Ketchikan, Alaska.

ARIZONA.

Black Mesa Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.; WM. H. REED, Forest Ranger, Showlow, Ariz.

Chiricahua Forest Reserve—C. T. McGLONE, Forest Supervisor, Paradise, Ariz.

Grand Canyon Forest Reserve (Northern Division)—LORUM PRATT, Forest Supervisor, Fredonia, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.

Grand Canyon Forest Reserve (Southern Division)—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; PATRICK A. FENTON, Forest Ranger, Grand Canyon, Ariz.

Mount Graham Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.

Pinal Mountains Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.; J. C. BRODIE, Forest Ranger, Globe, Ariz.

Prescott Forest Reserve—F. C. W. POOLER, Forest Ranger in charge, Prescott, Ariz.; D. D. BRONSON, Forest Assistant, Prescott, Ariz.

San Francisco Mountains Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.

Santa Rita Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Santa Catalina Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

CALIFORNIA.

Diamond Mountain Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

Klamath Forest Reserve—R. P. L. BIGELOW, Forest Ranger in charge, Weaverville, Cal.

Lake Tahoe Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.

Lassen Peak Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

Modoc Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

Plumas Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

San Bernardino Forest Reserve—R. H. CHARLTON, Forest Inspector in charge, Los Angeles, Cal.; NELS O. TORSTENSON, Forest Ranger, San Bernardino, Cal.

San Gabriel Forest Reserve—R. H. CHARLTON, Forest Inspector in charge, Los Angeles, Cal.; B. H. CROW, Forest Ranger, Pasadena, Cal.

San Jacinto Forest Reserve—J. R. BELL, Forest Supervisor, Valley Vista, Cal.

Santa Barbara Forest Reserve—W. M. SLOSSON, Forest Supervisor, Santa Barbara, Cal.; STEPHEN H. DOUGLASS, Forest Ranger, Ventura, Cal.

Sierra Forest Reserve (Northern Division)—C. H. SHINN, Forest Supervisor, Northfork, Cal.; ERNEST BRITTON, Forest Ranger, Three Rivers, Cal.; H. J. BROWN, Forest Assistant, Northfork, Cal.

Sierra Forest Reserve (Southern Division)—HARRISON WHITE, Forest Supervisor, Visalia, Cal.

Stanislaus Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.; JOHN C. WELLS, Forest Ranger, Echo, Cal.

Trabuco Canyon Forest Reserve—J. R. BELL, Forest Supervisor, Valley Vista, Cal.

Trinity Forest Reserve—R. P. L. BIGELOW, Forest Ranger in charge, Weaverville, Cal.

Warner Mountains Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

COLORADO.

Battlement Mesa Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.; T. D. WOODBURY, Forest Assistant, Mesa, Colo.

Cochetopa Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.; W. J. MORRILL, Forest Assistant, Moffatt, Colo.

Gunnison Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.

Leadville Forest Reserve—JAS. H. CLARKE, Forest Supervisor, Denver, Colo.; F. A. SILCOX, Forest Assistant, Bailey, Colo.; WILLIAM W. HOOPER, Forest Ranger, Bailey, Colo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.; J. H. MULLISON, Forest Ranger, Walden, Colo.

Pikes Peak Forest Reserve—JAMES H. CLARKE, Forest Supervisor, Denver, Colo.; F. A. SILCOX, Forest Assistant, Bailey, Colo.; W. D. EDMONSTON, Forest Ranger, Larkspur, Colo.

San Isabel Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.

Wet Mountains Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.

White River Forest Reserve—W. L. VEATCH, Forest Supervisor, Buford, Colo.

IDAHO.

Bitter Root Forest Reserve—CASSIUS M. DAY, Forest Supervisor, Kooskia, Idaho; J. E. BARTON, Forest Assistant, Kooskia, Idaho.

Cassia Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

Henrys Lake Forest Reserve—HOMER FENN, Forest Ranger in charge, St. Anthony, Idaho; M. L. ERICKSON, Forest Assistant, St. Anthony, Idaho.

Priest River Forest Reserve—B. F. McCONNELL, Forest Supervisor, Williams, Idaho; L. von WERNSTEDT, Forest Assistant, Williams, Idaho.

Pocatello Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

MINNESOTA.

Minnesota Forest Reserve—G. E. MARSHALL, Forest Ranger in charge, Cass Lake, Minn.; Forest Rangers, W. R. MCKINNON, MARK BURNS, GEORGE FARLEY, E. M. HAMILTON, and R. G. GIFFIN, Cass Lake, Minn.

MONTANA.

Bitter Root Forest Reserve (Montana Division)—E. A. SHERMAN, Forest Supervisor, Hamilton, Mont.

Gallatin Forest Reserve—MICHAEL LANGOHR, Forest Supervisor, Bozeman, Mont.

Highwood Mountains Forest Reserve—JAMES G. THAIN, Forest Supervisor, Highwood, Mont.

Lewis and Clark Forest Reserve (Northern Division)—F. N. HAINES, Forest Supervisor, Kalispell, Mont.

Lewis and Clark Forest Reserve (Southern Division)—A. M. BLISS, Forest Supervisor, Ovando, Mont.; D. G. KINNEY, Forest Assistant, Ovando, Mont.; PAGE S. BUNKER, Forest Ranger, Ovando, Mont.

Little Belt Forest Reserve—IRA E. TODD, Forest Supervisor, Neihart, Mont.

Madison Forest Reserve—J. B. SEELY, Forest Supervisor, Virginia City, Mont.

Yellowstone Forest Reserve (Absaroka Division)—E. C. RUSSELL, Forest Supervisor, Tony, Mont.

NEW MEXICO.

Gila River Forest Reserve—R. C. MCCLURE, Forest Supervisor, Silver City, N. Mex.; A. O. WAHA, Forest Assistant, Silver City, N. Mex.; RUFUS K. WADE, Forest Ranger, Mogollon, N. Mex.

Lincoln Forest Reserve—CLEMENT HIGHTOWER, Forest Supervisor, Capitan, N. Mex.; A. C. RINGLAND, Forest Assistant, Capitan, N. Mex.

Pecos River Forest Reserve—L. F. KNEIPP, Forest Ranger in charge, Santa Fe, N. Mex.

OKLAHOMA.

Wichita Forest Reserve—E. F. MORRISSEY, Forest Supervisor, Cache, Okla.

OREGON.

Ashland Forest Reserve—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.

Baker City Forest Reserve—S. S. TERRELL, Forest Supervisor, Sumpter, Oreg.

Bull Run Forest Reserve—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.

Cascade Forest Reserve (Northern Division)—ADOLF ASCHOFF, Forest Supervisor, Marniot, Oreg.; A. E. COHOON, Forest Assistant, Marmot, Oreg.; MILTON J. ANDERSON, Forest Ranger, The Dalles, Oregon.

Cascade Forest Reserve (Southern Division)—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.; A. E. COHOON, Forest Assistant, Roseburg, Oreg.

Maury Mountains Forest Reserve—A. S. IRELAND, Forest Ranger in charge, Prineville, Oreg.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.

SOUTH DAKOTA.

Black Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.; R. P. IMES, Forest Assistant, Deadwood, S. Dak.; JOHN F. SMITH, Forest Ranger, Custer, S. Dak.

Cave Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Short Pine Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Slim Buttes Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

UTAH.

Aquarius Forest Reserve—GEO. H. BARNEY, Forest Supervisor, Escalante, Utah.

Fish Lake Forest Reserve—C. T. BALLE, Forest Supervisor, Fremont, Utah.

Grantsville Forest Reserve—CHARLES F. COOLEY, Forest Supervisor, Grantsville, Utah.

Logan Forest Reserve—J. F. SQUIRES, Forest Supervisor, Logan, Utah.

Manti Forest Reserve—A. W. JENSEN, Forest Supervisor, Ephraim, Utah.

Payson Forest Reserve—DAN S. PACK, Forest Supervisor, Payson, Utah.

Salt Lake Forest Reserve—JAMES E. MEEKS, Forest Supervisor, Murray, Utah.

Sevier Forest Reserve—BEAUREGARD KENNER, Forest Ranger in charge, Panguitch, Utah.

Uintah Forest Reserve—D. S. MARSHALL, Forest Supervisor, Kamas, Utah.

WASHINGTON.

Mount Rainier Forest Reserve—G. F. ALLEN, Forest Supervisor, Orting, Wash.; S. G. SMITH, Forest Assistant, Orting, Wash.; CHAS. E. RANDLE, Forest Ranger, Fairfax, Wash.

Olympic Forest Reserve—FRED HANSON, Forest Supervisor, Hoodspur, Wash.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.

Washington Forest Reserve (Western Division)—G. B. COLEMAN, Forest Supervisor, Sumas, Wash.

Washington Forest Reserve (Eastern Division)—G. W. MILHAM, Forest Supervisor, Chelan, Wash.

WYOMING.

Big Horn Forest Reserve—W. E. JACKSON, Forest Supervisor, Bighorn, Wyo.; G. S. CLELAND, Forest Assistant, Big Horn, Wyo.; W. E. LA FOUNTAIN, Forest Ranger, Bighorn, Wyo.; JOHN MUSELL, Scaler, Bighorn, Wyo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.

Yellowstone Forest Reserve (Wind River Division)—ZEPH JONES, Forest Supervisor, Pinedale, Wyo.

Yellowstone Forest Reserve (Teton Division)—ROBERT E. MILLER, Forest Supervisor, Jackson, Wyo.; G. H. CECIL, Forest Assistant, Jackson, Wyo.; CLARENCE N. WOODS, Forest Ranger, Jackson, Wyo.

Yellowstone Forest Reserve (Shoshone Division)—W. H. PEARCE, Forest Supervisor, Wapiti, Wyo.; HARRY W. THURSTON, Forest Ranger, Marquette, Wyo.

United States Department of Agriculture,
FOREST SERVICE,
GIFFORD PINCHOT, Forester.

FIELD PROGRAMME FOR OCTOBER, 1905.

A programme of field work and assignments in the Forest Service is issued monthly during the field season. The names of members whose assignments are indefinite and reference to projects for which plans have not been matured are necessarily omitted.

It is requested that the members of the Forest Service cooperate in making this programme complete and accurate. Information concerning errors or omissions, and changes of project or of address for the following month, should be sent by members to the offices of their respective chiefs not later than the 20th of the month.

Unless the address of a member is given in this programme or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

Work conducted under the direction of the Forester is designated (F); Dendrology (D); Forest Management (M); Forest Products (P); Forest Extension (E); Forest Reserves (R).

ADMINISTRATION.

GIFFORD PINCHOT, *Forester*.

OVERTON W. PRICE, *Associate Forester*.

C. D. MELL, *Acting Chief of Dendrology*.

A. K. CHITTENDEN, *Acting Chief of Forest Management*.

WILLIAM L. HALL, *Chief of Forest Products*.

L. C. MILLER, *Acting Chief of Forest Extension*.

COERT DUBoIS, *Acting Chief of Section of Forest Reserves*.

JAMES B. ADAMS, *Chief of Records and Special Fiscal Agent*.

FIELD WORK.

CALIFORNIA.

(D) New and little-known eucalypts for the United States—Prof. A. J. MCCLATCHIE; permanent address, Gardena, Cal.

(D) Study of tanbark oaks of Pacific coast—Prof. W. L. JEPSON; permanent address, Berkeley, Cal.

(D) Special studies of California trees, four-leaf pine, Torrey pine, Bishop pine—Prof. W. R. DUDLEY; permanent address, Stanford University, Cal.

(D) Study of native and exotic acacias—Prof. A. V. STUBENRAUCH; permanent address, Berkeley, Cal.

(M) Inspection of working plans for forest reserves—W. B. GREELEY, Northfork, Cal.

(M) Preliminary examinations of timberlands, in cooperation with landowners—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.

(M) Study of the white fir—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.; assistants, M. B. PRATT, W. G. DURBIN, and I. F. ELDREDGE.

(E) Study of stream flow on the Yuba River watershed—J. D. GUTHRIE, Occidental Hotel, San Francisco, Cal.

(E) Study of results of forest planting—H. O. STABLER, Occidental Hotel, San Francisco, Cal.

(E) Care of Government forest nursery, and preparation of a planting plan for the Santa Barbara Forest Reserve—G. W. PEAVY, Santa Barbara, Cal.

(E) Care of Government forest nursery, San Gabriel Forest Reserve—T. P. LUKENS, Pasadena, Cal.; assistant, A. T. SEARLE.

(P) Timber tests of western yellow pine, in cooperation with University of California—ROLF THELEN, Berkeley, Cal.

COLORADO.

(E) Care and extension of Government nurseries in the Pikes Peak Forest Reserve—F. W. BESLEY, Clyde, Colo.; assistant, B. R. H. d'ALLEMAND.

(E) Preparation of a planting plan for the Gunnison Forest Reserve—S. B. DETWILER, Crested Butte, Colo.; assistant, C. H. SELLERS.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—R. B. WILSON, Gunnison, Colo.

CONNECTICUT.

(P) Timber tests, with special reference to the influence of rate of application of load on strength of longleaf pine, chestnut, and red spruce, in cooperation with Yale University—Prof. J. W. TOUMEY and H. D. TIEMANN, Yale Forest School, New Haven, Conn.; assistant, CORNELIUS BARRY.

(P) Experiments of a chemical nature germane to the utilization of wood—A. L. DEAN, Sheffield Scientific School, Yale University, New Haven, Conn.; assistant, H. S. BRISTOL.

FLORIDA.

(D) Improved methods of turpentining, experimental pine forests in cooperation with the Hillman-Sutherland Land Company—FRANK KLARPP, Green Cove Springs, Fla.

HAWAII.

(E) Examination of lands for insular forest reserves—R. S. HOSMER, Honolulu, Hawaii.

IDAHO.

(E) Preliminary examination for planting plan on the proposed Malad Forest Reserve—W. J. GARDNER, Weston, Oneida Co., Idaho; assistant, J. DEWITT WARNER.

ILLINOIS.

(P) Preparation of laboratory plans for study of wood preservation—S. M. ROWE, Room 364, Monadnock Building, Chicago, Ill.

INDIANA.

(P) Timber testing at Lafayette, Ind., in cooperation with Purdue University—H. D. HARTLEY, Lafayette, Ind.; assistants, O. P. M. GOSS and T. A. NEWLIN.

(P) Study of methods of kiln-drying lumber—FREDERICK DUNLAP, Hotel Stratford, Chicago, Ill.

IOWA.

(E) Study of planted groves in Iowa—H. P. BAKER, Ames, Iowa; assistants, W. H. von BAYER and E. O. SIECKE.

(P) Experiments in the preservative treatment of fence posts—R. W. AYRES, Lillie Hotel, Los Angeles, Cal.

KANSAS.

(E) Establishment of nursery for Garden City Forest Reserve—C. A. Scott, Garden City, Kans.

KENTUCKY.

(M) Working plan for the Interstate Investment Company, in cooperation with the company—G. M. HOMANS, headquarters, Crab Orchard, Va.

MARYLAND.

(P) Experiments in seasoning chestnut telephone poles—M. SMITH, JR., and H. F. WEISS, Parkton, Md.

MASSACHUSETTS.

(P) Experiments to determine the value of various woods for pulp—A. D. LITTLE, 93 Broad street, Boston, Mass.

MICHIGAN.

(M) Working plan for F. Newhall & Sons, on North Manitou Island, in cooperation with the company—S. J. RECORD, North Manitou Island, Mich.; assistants, D. RODMAN, W. C. LATANE, JR., and J. A. FITZWATER, South Manitou, Mich.

(P) Experiments in seasoning hemlock and tamarack cross-ties, in cooperation with the Chicago and Northwestern and Wisconsin Central Railroad Companies—H. A. PAUL, New Ludington Hotel, Escanaba, Mich.; assistant, C. S. SMITH.

(P) Experiments in seasoning and rafting cedar and tamarack telephone poles, in cooperation with the State and with several telegraph, telephone, and railroad companies—C. E. FEAGIN, New Ludington Hotel, Escanaba, Mich.

MINNESOTA.

(M) Investigation of tie production for the Northern Pacific Railway Company, in cooperation with the company—H. H. CHAPMAN, 593 Holly avenue, St. Paul, Minn.

(M) Study of red pine—L. L. WHITE, Cloquet, Minn.

(E) Collection of seed for forest nurseries—J. F. BOND, Cass Lake, Minn.

MISSISSIPPI.

(E) Study of forest problems, in cooperation with the State Agricultural and Mechanical College—GEO. L. CLOTHIER, Agricultural College, Miss.

MONTANA.

(M) Inspection of working plans for forest reserves in Montana and Wyoming—P. G. REDINGTON, Keystone, Wyo.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—CLYDE LEAVITT, Miles City, Mont.; R. V. R. REYNOLDS, Missoula, Mont.

NEBRASKA.

(E) Care of Government nursery, Dismal River Forest Reserve—W. H. MAST, Halsey, Nebr.; assistants, A. E. OMAN, and F. J. PHILLIPS.

NEVADA.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—F. W. REED, Elko, Nev.

NEW HAMPSHIRE.

(M) Study of woodlot and forest conditions in southern New Hampshire, in cooperation with the State—C. A. LYFORD, Ashuelot, N. H.; assistants, A. T. BOISEN, H. C. NEEL, and B. MACKAYE.

(M) Mill scale study of second-growth white pine—L. MARGOLIN, Waterloo, N. H.; assistant, WARREN DAVIS.

NEW MEXICO.

(E) Care of Government forest nursery, and preparation of planting plan for portions of the new addition to the Gila River Forest Reserve—W. R. MATTOON, Fort Bayard, N. Mex.; assistants, A. S. PECK, T. J. TAYLOR, and J. C. BLUMER.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, Magdalena, N. Mex.; W. D. HAYES, Santa Fe, N. Mex.; F. G. PLUMMER, Santa Fe, N. Mex.

NEW YORK.

(M) Working plan for Delaware and Hudson Company, in cooperation with the company—A. W. COOPER, Riverside Inn, Saranac Lake, N. Y.

(M) Working plans for woodland on country estates, in cooperation with land-owners—J. G. PETERS, Hyde Park, N. Y.; assistants, H. G. MERRILL, F. L. PRAY, and F. M. PATTON.

(M) Study of popple—W. G. WEIGLE, Hyde Park, N. Y.

OREGON.

(D) Government forest exhibit at Lewis and Clark Centennial Exposition—Representative in charge, G. B. LULL, Portland, Oreg.

(P) Experimental tests of timber at Lewis and Clark Centennial Exposition—Prof. L. E. HUNT and J. F. KNAPP, Portland, Oreg.

SOUTH CAROLINA.

(P) Tests of loblolly pine at mill of the E. P. Burton Lumber Company—H. S. BETTS, P. O. Box 494, Charleston, S. C.; assistant, M. CLINE.

TENNESSEE.

(M) Study of the effect of sulphur fumes on forest growth—J. S. HOLMES, Ducktown, Tenn.

TEXAS.

(D) Study of forest conditions of the Big Thicket country—Prof. W. L. BRAY, Austin, Tex.

UTAH.

(E) Preparation of planting plan for the Salt Lake Forest Reserve—J. M. FETHEROLF, Salt Lake City, Utah; assistant, W. B. HADLEY.

VIRGINIA.

(P) Experiments in grading and treating cross-arms, in cooperation with the American Telephone and Telegraph Company—W. F. SHERFESEE, care Norfolk Creosoting Works, Norfolk, Va.

WASHINGTON.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—JOHN B. LIEBERG, Monroe, Wash.

WYOMING.

(M) Working plan for a portion of the Medicine Bow Forest Reserve—P. G. REDINGTON and H. S. MEEKHAM, Keystone, Wyo.; assistants, E. H. CLAPP, C. J. BUCK, J. REBMANN, P. T. HARRIS, W. B. PIPER, I. T. WORTHLEY, E. D. FLETCHER, M. SCHAAF, and H. L. TUCHER.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—T. F. RIXON, Lander, Wyo.

REGIONAL STUDIES.

GENERAL.

(P) Collection of statistics of forest products for year 1905—R. S. KELLOGG, Washington, D. C.; GEO. K. SMITH, Equitable Building, St. Louis, Mo.

(P) Study of specifications for the grading of lumber—E. R. HODSON, Washington, D. C.

(P) Supervision of seasoning experiments—HENRY GRINNELL, Washington, D. C.

(P) Study of woods used in the cooperage industry—J. J. LEVISON and H. M. HALE, Washington, D. C.

(P) Study of woods used in the vehicle and implement industry—H. B. HOLROYD, Washington, D. C.

(P) Study of woods used for street paving—C. L. HILL, Washington, D. C.

OHIO VALLEY.

(E) Study of possibilities of forest planting, with special reference to the black locust—Prof. S. N. SPRING, Wilkinsburg, Pa.

EASTERN STATES.

(M) Study of the Potomac River watershed—W. W. ASHE, Riverton, Va.

(M) Preliminary examinations of timberlands, in cooperation with landowners—T. S. WOOLSEY, JR., Washington, D. C.

(E) Study of forest plantations—R. C. BRYANT, Washington, D. C.

(P) Study of woods used for box and basket purposes—J. P. WENTLING, Washington, D. C.

(P) Oversight of setting treated poles in telephone line between Warren, Pa., and Gowanda, N. Y.—FRANK TOMPKINS and J. M. NELSON, JR., Sherman House, Jamestown, Pa.

MIDDLE WESTERN STATES.

(M) Woodlot examinations, in cooperation with landowners—W. BRADFIELD, Washington, D. C.

WESTERN STATES.

(D) Dendrological investigations—GEO. B. SUDWORTH, Portland, Oreg.

(M) Inspection of timber cuttings on the forest reserves—T. H. SHERRARD, General Delivery, Salt Lake City, Utah.

(M) Study of forest conditions in Utah and Colorado—E. E. CARTER, Buffalo Creek, Colo.

(P) Seasoning experiments on yellow fir, tamarack, and cedar cross-ties, Tacoma and Pasco, Wash., and Sand Point, Idaho, in cooperation with the Northern Pacific Railway Company—H. B. EASTMAN, 117 South G street, Tacoma, Wash.

FOREST RESERVES.

F. E. OLMS TED, *Assistant Forester in charge*, Portland, Oreg.

E. T. ALLEN, *Forest Inspector*, Sacramento, Cal.

A. F. POTTER, *Forest Inspector*, Wapiti, Wyo.

E. S. BRUCE, *Forest Inspector*, Wapiti, Wyo.

A. A. ANDERSON, *Special Forest Inspector*, Fourbear, Wyo.

R. E. BENEDICT, *Forest Inspector*, Globe, Ariz.

SMITH RILEY, *Forest Inspector*, Glenwood Springs, Colo.

ELERS KOCH, *Forest Inspector*, Bozeman, Mont.

D. B. SHELLER, *Forest Superintendent*, Roseburg, Oreg.

ALASKA.

Afognak and Alexander Archipelago forest reserves—W. A. LANGILLE, Forest Inspector in charge of reserves in Alaska, Ketchikan, Alaska.

ARIZONA.

Black Mesa Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.; WM. H. REED, Forest Ranger, Showlow, Ariz.

Chiricahua Forest Reserve—C. T. McGLONE, Forest Supervisor, Paradise, Ariz.

Grand Canyon Forest Reserve (Northern Division)—LORUM PRATT, Forest Supervisor, Fredonia, Ariz.

Grand Canyon Forest Reserve (Southern Division)—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.; PATRICK A. FENTON, Forest Ranger, Grand Canyon, Ariz.

Mount Graham Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.

Pinal Mountains Forest Reserve—R. E. BENEDICT, Forest Inspector in charge, Globe, Ariz.

Prescott Forest Reserve—F. C. W. POOLER, Forest Ranger in charge, Prescott, Ariz.; D. D. BRONSON, Forest Assistant, Prescott, Ariz.

San Francisco Mountains Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; E. H. HAREFORD, Forest Assistant, Flagstaff, Ariz.

Santa Rita Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Santa Catalina Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

CALIFORNIA.

Diamond Mountain Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

Klamath Forest Reserve—R. P. L. BIGELOW, Forest Ranger in charge, Weaverville, Cal.

Lake Tahoe Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.

Lassen Peak Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

Modoc Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

Plumas Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

San Bernardino Forest Reserve—R. H. CHARLTON, Forest Supervisor, Los Angeles, Cal.; NELS O. TORSTENSON, Forest Ranger, San Bernardino, Cal.

San Gabriel Forest Reserve—R. H. CHARLTON, Forest Supervisor, Los Angeles, Cal.; B. H. CROW, Forest Ranger, Pasadena, Cal.

San Jacinto Forest Reserve—J. R. BELL, Forest Supervisor, Valley Vista, Cal.

Santa Barbara Forest Reserve—W. M. SLOSSON, Forest Supervisor, Santa Barbara, Cal.; STEPHEN H. DOUGLASS, Forest Ranger, Ventura, Cal.

Sierra Forest Reserve (Northern Division)—C. H. SHINN, Forest Supervisor, Northfork, Cal.; ERNEST BRITTON, Forest Ranger, Three Rivers, Cal.; H. J. BROWN, Forest Assistant, Northfork, Cal.

Sierra Forest Reserve (Southern Division)—HARRISON WHITE, Forest Supervisor, Visalia, Cal.

Stanislaus Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.; JOHN C. WELLS, Forest Ranger, Echo, Cal.

Trabuco Canyon Forest Reserve—J. R. BELL, Forest Supervisor, Valley Vista, Cal.

Trinity Forest Reserve—R. P. L. BIGELOW, Forest Ranger in charge, Weaverville, Cal.

Warner Mountains Forest Reserve—A. H. HOGUE, Forest Ranger in charge, Alturas, Cal.

COLORADO.

Battlement Mesa Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.; T. D. WOODBURY, Forest Assistant, Mesa, Colo.

Cochetopa Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.; W. J. MORRILL, Forest Assistant, Moffatt, Colo.

Gunnison Forest Reserve—A. R. CRAIG, Forest Supervisor, Mesa, Colo.; T. D. WOODBURY, Forest Assistant, Mesa, Colo.

Holy Cross Forest Reserve—SMITH RILEY, Forest Inspector in charge, Glenwood Springs, Colo.

Leadville Forest Reserve—WILLIAM W. HOOPER, Forest Ranger in charge, Leadville, Colo.; F. A. SILCOX, Forest Assistant, Bailey, Colo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.; J. H. MULLISON, Forest Ranger, Walden, Colo.

Pikes Peak Forest Reserve—JAMES H. CLARKE, Forest Supervisor, Denver, Colo.; G. E. CLEMENT, Forest Assistant, Denver, Colo.; W. D. EDMONSTON, Forest Ranger, Larkspur, Colo.

San Isabel Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.; W. J. MORRILL, Forest Assistant, Moffatt, Colo.

Wet Mountains Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.; W. J. MORRILL, Forest Assistant, Moffatt, Colo.

White River Forest Reserve—HARRY GIBLER, Forest Ranger in charge, Buford, Colo.

IDAHO.

Bitter Root Forest Reserve—CASSIUS M. DAY, Forest Supervisor, Kooskia, Idaho; J. E. BARTON, Forest Assistant, Kooskia, Idaho.

Cassia Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

Henrys Lake Forest Reserve—HOMER FENN, Forest Ranger in charge, St. Anthony, Idaho.

Payette Forest Reserve—F. A. FENN, Forest Supervisor, Boise, Idaho.; M. L. ERICKSON, Forest Assistant, Boise, Idaho.

Pocatello Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

Priest River Forest Reserve—B. F. McCONNELL, Forest Supervisor, Williams, Idaho; L. VON WERNSTEDT, Forest Assistant, Williams, Idaho.

Sawtooth Forest Reserve—F. A. FENN, Forest Supervisor, Boise, Idaho.; M. L. ERICKSON, Forest Assistant, Boise, Idaho.

Weiser Forest Reserve—F. A. FENN, Forest Supervisor, Boise, Idaho.; M. L. ERICKSON, Forest Assistant, Boise, Idaho.

MINNESOTA.

Minnesota Forest Reserve—G. E. MARSHALL, Forest Ranger in charge, Cass Lake, Minn.; Forest Rangers, W. R. MCKINNON, MARK BURNS, GEORGE FARLEY, and E. M. HAMILTON, Cass Lake, Minn.

MONTANA.

Bitter Root Forest Reserve (Montana Division)—E. A. SHERMAN, Forest Supervisor, Hamilton, Mont.

Elkhorn Forest Reserve—ROBERT J. MOORE, Forest Ranger in charge, Boulder Valley, Mont.

Gallatin Forest Reserve—MICHAEL LANGOHR, Forest Supervisor, Bozeman, Mont.

Highwood Mountains Forest Reserve—JAMES G. THAIN, Forest Supervisor, Highwood, Mont.

Lewis and Clark Forest Reserve (Northern Division)—F. N. HAINES, Forest Supervisor, Kalispell, Mont.

Lewis and Clark Forest Reserve (Southern Division)—A. M. BLISS, Forest Supervisor, Ovando, Mont.; D. G. KINNEY, Forest Assistant, Ovando, Mont.; PAGE S. BUNKER, Forest Ranger, Ovando, Mont.

Little Belt Forest Reserve—IRA E. TODD, Forest Supervisor, Neihart, Mont.

Madison Forest Reserve—J. B. SEELY, Forest Supervisor, Virginia City, Mont.

Yellowstone Forest Reserve (Absaroka Division)—E. C. RUSSELL, Forest Supervisor, Tony, Mont.

NEW MEXICO.

Gila Forest Reserve—R. C. MCCLURE, Forest Supervisor, Silver City, N. Mex.; A. O. WAHA, Forest Assistant, Silver City, N. Mex.; RUFUS K. WADE, Forest Ranger, Mogollon, N. Mex.

Lincoln Forest Reserve—CLEMENT HIGHTOWER, Forest Supervisor, Capitan, N. Mex.; A. C. RINGLAND, Forest Assistant, Capitan, N. Mex.

Pecos River Forest Reserve—L. F. KNEIPP, Forest Ranger in charge, Santa Fe, N. Mex.

OKLAHOMA.

Wichita Forest Reserve—E. F. MORRISSEY, Forest Supervisor, Cache, Okla.

OREGON.

Ashland Forest Reserve—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.

Baker City Forest Reserve—S. S. TERRELL, Forest Supervisor, Sumpter, Oreg.

Bull Run Forest Reserve—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.

Cascade Forest Reserve (Northern Division)—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.; A. E. COHOON, Forest Assistant, Marmot, Oreg.; MILTON J. ANDERSON, Forest Ranger, The Dalles, Oregon.

Cascade Forest Reserve (Southern Division)—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.; A. E. COHOON, Forest Assistant, Roseburg, Oreg.

Chesnimnus Forest Reserve—H. K. O'BRIEN, Ranger in charge, Le Grande, Oreg.

Maury Mountains Forest Reserve—A. S. IRELAND, Forest Ranger in charge, Prineville, Oreg.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.; H. D. FOSTER, Forest Assistant, Walla Walla, Wash.

Wallowa Forest Reserve—H. K. O'BRIEN, Ranger in charge, Le Grande, Oreg.

SOUTH DAKOTA.

Black Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.; R. P. IMES, Forest Assistant, Deadwood, S. Dak.; JOHN F. SMITH, Forest Ranger, Custer, S. Dak.

Cave Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Short Pine Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Slim Buttes Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

UTAH.

Aquarius Forest Reserve—GEO. H. BARNEY, Forest Supervisor, Escalante, Utah.

Dixie Forest Reserve—Sylvanus Collett, Ranger in charge, Modena, Utah.

Fish Lake Forest Reserve—C. T. BALLE, Forest Supervisor, Fremont, Utah.

Grantsville Forest Reserve—CHARLES F. COOLEY, Forest Supervisor, Grantsville, Utah.

Logan Forest Reserve—J. F. SQUIRES, Forest Supervisor, Logan, Utah.

Manti Forest Reserve—A. W. JENSEN, Forest Supervisor, Ephraim, Utah.

Payson Forest Reserve—DAN S. PACK, Forest Supervisor, Payson, Utah.

Salt Lake Forest Reserve—E. H. CLARKE, Forest Ranger in charge, Murray, Utah.

Sevier Forest Reserve—BEAUREGARD KENNER, Forest Ranger in charge, Panguiitch, Utah.; J. H. RAMSKILL, Forest Assistant, Panguiitch, Utah.

Gintah Forest Reserve—D. S. MARSHALL, Forest Supervisor, Kamas, Utah.

WASHINGTON.

Mount Rainier Forest Reserve—G. F. ALLEN, Forest Supervisor, Orting, Wash.; S. G. SMITH, Forest Assistant, Orting, Wash.; CHAS. E. RANDLE, Forest Ranger, Fairfax, Wash.

Olympic Forest Reserve—FRED HANSON, Forest Supervisor, Hood sport, Wash.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.; H. D. FOSTER, Forest Assistant, Walla Walla, Wash.

Washington Forest Reserve (Western Division)—G. B. COLEMAN, Forest Supervisor, Sumas, Wash.

Washington Forest Reserve (Eastern Division)—G. W. MILHAM, Forest Supervisor, Chelan, Wash.

WYOMING.

Big Horn Forest Reserve—W. E. JACKSON, Forest Supervisor, Bighorn, Wyo.; W. E. LA FOUNTAIN, Forest Ranger, Bighorn, Wyo.; JOHN MUSSELL, Scaler, Bighorn, Wyo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.

Yellowstone Forest Reserve (Wind River Division)—ZEPH JONES, Forest Supervisor, Pinedale, Wyo.; G. H. CECIL, Forest Assistant, Pinedale, Wyo.

Yellowstone Forest Reserve (Teton Division)—ROBERT E. MILLER, Forest Supervisor, Jackson, Wyo.; CLARENCE N. WOODS, Forest Ranger, Jackson, Wyo.

Yellowstone Forest Reserve (Shoshone Division)—W. H. PEARCE, Forest Supervisor, Wapiti, Wyo.; HARRY W. THURSTON, Forest Ranger, Marquette, Wyo.

With deep regret, announcement is made of the death of Deputy Forest Ranger CHARLES E. BAKER, of the Black Mesa Forest Reserve, on September 10, 1905.

United States Department of Agriculture,
FOREST SERVICE,
GIFFORD PINCHOT, Forester.

FIELD PROGRAMME FOR NOVEMBER, 1905.

A programme of field work and assignments in the Forest Service is issued monthly during the field season. The names of members whose assignments are indefinite and reference to projects for which plans have not been matured are necessarily omitted.

It is requested that the members of the Forest Service cooperate in making this programme complete and accurate. Information concerning errors or omissions, and changes of project or of address for the following month, should be sent by members to the offices of their respective chiefs not later than the 20th of the month.

Unless the address of a member is given in this programme or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

Work conducted under the direction of the Forester is designated (F); Dendrology (D); Forest Management (M); Forest Products (P); Forest Extension (E); Forest Reserves (R).

ADMINISTRATION.

GIFFORD PINCHOT, *Forester*.

OVERTON W. PRICE, *Associate Forester*.

C. D. MELL, *Acting Chief of Dendrology*.

A. K. CHITTENDEN, *Acting Chief of Forest Management*.

WILLIAM L. HALL, *Chief of Forest Products*.

E. A. STERLING, *Chief of Forest Extension*.

COERT DUBoIS, *Acting Chief of Section of Forest Reserves*.

JAMES B. ADAMS, *Chief of Records and Special Fiscal Agent*.

FIELD WORK.

ARIZONA.

(M) Working plans for portions of the Prescott Forest Reserve—M. SCHAAF, Prescott, Ariz.

CALIFORNIA.

(D) New and little-known eucalypts for the United States—Prof. A. J. MCCLATCHIE; permanent address, Gardena, Cal.

(D) Study of tanbark oaks of Pacific coast—Prof. W. L. JEPSON; permanent address, Berkeley, Cal.

(D) Special studies of California trees, four-leaf pine, Torrey pine, Bishop pine—Prof. W. R. DUDLEY; permanent address, Stanford University, Cal.

(D) Study of native and exotic acacias—Prof. A. V. STUBENRAUCH; permanent address, Berkeley, Cal.

(M) Inspection of working plans for forest reserves—W. B. GREELEY, Northfork, Cal.

(M) Study of the white fir—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.

(M) Working plans for portions of the Sierra Forest Reserve—W. B. GREELEY, Northfork, Cal.; assistants, H. S. MEEKHAM, C. J. BUCK, J. REBMANN, M. B. PRATT, W. G. DURBIN, H. L. TUCKER, and I. F. ELDREDGE.

(E) Study of the relation of forest cover to stream flow, in cooperation with the State—J. D. GUTHRIE, Occidental Hotel, San Francisco, Cal.

(E) Study of State forest lands, in cooperation with the State—S. J. FLINTHAM, Occidental Hotel, San Francisco, Cal.

(E) Preparation of planting plans, in cooperation with landowners—G. B. LULL, Hotel Lillie, Los Angeles, Cal.; assistant, H. O. STABLER.

(E) Care of Government forest nursery, and preparation of a planting plan for the Santa Barbara Forest Reserve—G. W. PEAVY, Santa Barbara, Cal.

(E) Care of Government forest nursery, San Gabriel Forest Reserve—T. P. LUKENS, Pasadena, Cal.; assistant, A. T. SEARLE.

(P) Timber tests of eucalyptus, in cooperation with University of California—L. E. HUNT, Berkeley, Cal.; assistant, A. J. CLEARY.

(P) Experiments in preservative treatment of fence posts—R. W. AYRES, Santa Barbara, Cal.; assistant, A. H. PIERSON.

COLORADO.

(E) Care of Government nurseries in the Pikes Peak Forest Reserve—F. W. BESLEY, Clyde, Colo.; assistant, B. R. H. D'ALLEMAND.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—R. B. WILSON, Meeker, Colo.

CONNECTICUT.

(P) Timber tests, with special reference to the influence of rate of application of load on strength of longleaf pine, chestnut, and red spruce, in cooperation with Yale University—Prof. J. W. TOUMEY and H. D. TIEMANN, Yale Forest School, New Haven, Conn.; assistant, CORNELIUS BARRY.

(P) Experiments in wood preservatives—A. L. DEAN, Sheffield Scientific School, Yale University, New Haven, Conn.

DISTRICT OF COLUMBIA.

(P) Plans for timber treating and testing laboratory in Washington, D. C.—C. G. CRAWFORD and S. M. ROWE, Washington, D. C.

FLORIDA.

(D) Improved methods of turpentining, experimental pine forests in cooperation with the Hillman-Sutherland Land Company—FRANK KLARPP, Green Cove Springs, Fla.

HAWAII.

(E) Examination of lands for insular forest reserves—R. S. HOSMER, Honolulu, Hawaii.

INDIANA.

(P) Timber testing at Lafayette, Ind., in cooperation with Purdue University—Dr. W. K. HATT, Lafayette, Ind.; assistants, H. D. HARTLEY, O. P. M. GOSS, and T. A. NEWLIN.

IOWA.

(E) Study of planted groves in Iowa—H. P. BAKER, Ames, Iowa; assistants, W. H. VON BAYER and E. O. SIECKE.

MARYLAND.

(P) Experiments in seasoning chestnut telephone poles—H. F. WEISS, Parkton, Md.

MASSACHUSETTS.

(M) Woodlot and timber-tract examinations, in cooperation with the State—ALFRED AKERMAN, State Forester, Boston, Mass.

(P) Experiments to determine the value of various woods for pulp—A. D. LITTLE and H. S. BRISTOL, 93 Broad street, Boston, Mass.

MICHIGAN.

(M) Working plan for F. Newhall & Sons—D. RODMAN, South Manitou, Mich.; assistants, W. C. LATANE, JR., and J. A. FITZWATER.

(P) Experiments in seasoning hemlock and tamarack cross-ties, in cooperation with the Chicago and Northwestern and Wisconsin Central Railroad Companies—H. A. PAUL, New Ludington Hotel, Escanaba, Mich.; assistant, C. S. SMITH.

(P) Experiments in seasoning and rafting cedar telephone poles, in cooperation with the State and with several telegraph, telephone, and railroad companies—C. E. FEAGIN, New Ludington Hotel, Escanaba, Mich.

MINNESOTA.

(M) Investigation of tie production for the Northern Pacific Railway Company, in cooperation with the company—H. H. CHAPMAN, 593 Holly avenue, St. Paul, Minn.

(M) Study of red pine—L. L. WHITE, 593 Holly avenue, St. Paul, Minn.

MISSISSIPPI.

(E) Study of forest problems, in cooperation with the State Agricultural and Mechanical College—GEO. L. CLOTHIER, Agricultural College, Miss.

MONTANA.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—CLYDE LEAVITT, Miles City, Mont.; R. V. R. REYNOLDS, Plains, Mont.

NEBRASKA.

(E) Care of Government nursery, Dismal River Forest Reserve—W. H. MAST, Halsey, Nebr.

(E) Planting plan for lands along the North Platte in Wyoming and Nebraska, in cooperation with the Reclamation Service—C. A. SCOTT, Halsey, Nebr.

NEVADA.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—F. W. REED, Elko, Nev.

NEW HAMPSHIRE.

(M) Study of woodlot and forest conditions in southern New Hampshire, in cooperation with the State—C. A. LYFORD, Cheshire House, Keene, N. H.; assistants, A. T. BOISEN, H. C. NEEL, and B. MACKAYE.

(M) Mill scale study of second-growth white pine—L. MARGOLIN, Winchester, N. H.; assistants, WARREN O. DAVIS and W. C. WICKHAM.

(M) Woodlot and timber-tract examinations, in cooperation with landowners—H. G. MERRILL, Cheshire House, Keene, N. H.

NEW MEXICO.

(E) Care of Government forest nursery, and preparation of planting plan for portions of the Fort Bayard Military Reservation—W. R. MATTOON, Fort Bayard, N. Mex.; assistants, A. S. PECK and J. C. BLUMER.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, Gallup, N. Mex.; W. D. HAYES, Santa Fe, N. Mex.; F. G. PLUMMER, Santa Fe, N. Mex.

NEW YORK.

(M) Working plans for woodland on country estates, in cooperation with landowners—F. L. PRAY, Hyde Park, N. Y.; assistant, F. M. PATTON.

(M) Study of popple—W. G. WEIGLE, Saranac Lake, N. Y.

OREGON.

(P) Tests of red fir, in cooperation with University of Oregon—J. F. KNAPP, Eugene, Oreg.

PENNSYLVANIA.

(E) Preparation of planting plans for private lands in Wayne County, in cooperation with landowners—J. F. BOND, headquarters, Stockport Station, N. Y.

SOUTH CAROLINA.

(M) Working plan for E. P. Burton Lumber Company, in cooperation with the company—E. A. BRANIFF, Charleston, S. C.

(P) Tests of loblolly pine at mill of the E. P. Burton Lumber Company—H. S. BETTS, P. O. Box 494, Charleston, S. C.; assistant, M. CLINE.

TENNESSEE.

(M) Preliminary examinations of timberlands, in cooperation with landowners—J. S. HOLMES, Nashville, Tenn.

TEXAS.

(D) Study of forest conditions of the Big Thicket country—Prof. W. L. BRAY, Austin, Tex.

UTAH.

(E) Establishment of forest nursery in the Salt Lake Forest Reserve—J. M. FETHEROLF, Silver Lake, Utah; assistant, W. B. HADLEY.

VIRGINIA.

(P) Experiments in grading and treating cross-arms, in cooperation with the American Telephone and Telegraph Company—W. F. SHERFESEE, care Norfolk Creosoting Works, Norfolk, Va.

WASHINGTON.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—JOHN B. LIEBERG, Monroe, Wash.

(P) Tests of western hemlock, in cooperation with the University of Washington—ROLF THELEN, Seattle, Wash.

(P) Seasoning experiments on red fir, tamarack, and cedar cross-ties, Tacoma and Pasco, Wash., and Sand Point, Idaho, in cooperation with the Northern Pacific Railway Company—H. B. EASTMAN, 117 South G street, Tacoma, Wash.

WYOMING.

(M) Working plan for a portion of the Medicine Bow Forest Reserve—P. G. REDINGTON, Keystone, Wyo.; assistants, E. H. CLAPP, P. T. HARRIS, W. B. PIPER, I. T. WORTHLEY, and E. D. FLETCHER.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—T. F. RIXON, Lander, Wyo.

REGIONAL STUDIES.

EASTERN STATES.

(M) Study of the Potomac River watershed—W. W. ASHE, Washington, D. C.

(M) Preliminary examinations of timberlands, in cooperation with landowners—A. B. PATTERSON, Kuttawa, Ky.

(E) Study of forest plantations—R. C. BRYANT, Washington, D. C.

MIDDLE WESTERN STATES.

(M) Woodlot examinations, in cooperation with landowners—W. BRADFIELD, Washington, D. C.

WESTERN STATES.

(D) Dendrological investigations—GEO. B. SUDWORTH, Washington, D. C.

(M) Inspection of timber cuttings on the forest reserves—T. H. SHERRARD, Occidental Hotel, San Francisco, Cal.

(M) Inspection of working plans for forest reserves in Colorado and Utah—E. E. CARTER, Denver, Colo.

(M) Inspection of working plans for forest reserves in Montana and Wyoming—P. G. REDINGTON, Piedmont, Wyo.

GENERAL STUDIES.

(P) Collection of statistics of forest products for year 1905—R. S. KELLOGG, Washington, D. C.; GEO. K. SMITH, Equitable Building, St. Louis, Mo.

(P) Study of specifications for the grading of lumber—E. R. HODSON, Washington, D. C.

(P) Supervision of seasoning experiments—HENRY GRINNELL, Washington, D. C.

(P) Study of woods used in the cooperage industry—J. J. LEVISON and H. M. HALE, Washington, D. C.

(P) Study of woods used in the vehicle and implement industry—H. B. HOLROYD, Washington, D. C.

(P) Study of woods used for street paving—C. L. HILL, Washington, D. C.

(P) Study of woods used for box and basket purposes—J. P. WENTLING, Washington, D. C.

(P) Study of methods of kiln drying—FREDERICK DUNLAP, Washington, D. C.

FOREST RESERVES.

F. E. OLMSTED, *Assistant Forester in charge*, Portland, Oreg.

E. T. ALLEN, *Forest Inspector*, Sacramento, Cal.

E. S. BRUCE, *Forest Inspector*, Cass Lake, Minn.

A. A. ANDERSON, *Special Forest Inspector*, 80 West 40th St., New York.

R. E. BENEDICT, *Forest Inspector*, Thatcher, Ariz.

SMITH RILEY, *Forest Inspector*, Glenwood Springs, Colo.

ELERS KOCH, *Forest Inspector*, Bozeman, Mont.

D. B. SHELTER, *Forest Superintendent*, Roseburg, Oreg.

ALASKA.

Afognak and Alexander Archipelago forest reserves—W. A. LANGILLE, Forest Inspector in charge of reserves in Alaska, Ketchikan, Alaska.

ARIZONA.

Black Mesa Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; T. S. WOOLSEY, JR., Forest Assistant, Flagstaff, Ariz.

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Grand Canyon Forest Reserve (Northern Division)—LORUM PRATT, Forest Supervisor, Fredonia, Ariz.

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Mount Graham Forest Reserve—THOMAS HAMPTON, Forest Supervisor, Thatcher, Ariz.

Pinal Mountains Forest Reserve—H. A. E. MARSHALL, Forest Ranger in charge, Globe, Ariz.

Prescott Forest Reserve—F. C. W. POOLER, Forest Ranger in charge, Prescott, Ariz.; D. D. BRONSON, Forest Assistant, Prescott, Ariz.

San Francisco Mountains Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; T. S. WOOLSEY, JR., Forest Assistant, Flagstaff, Ariz.

Santa Rita Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Santa Catalina Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Tonto Forest Reserve—W. H. REED, Forest Ranger in charge, care of F. S. BREEN, Flagstaff, Ariz.

CALIFORNIA.

Diamond Mountain Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

Klamath Forest Reserve—R. P. L. BIGELOW, Forest Ranger in charge, Weaverville, Cal.

Lake Tahoe Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.

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San Gabriel Forest Reserve—R. H. CHARLTON, Forest Supervisor, Los Angeles, Cal.; B. H. CROW, Forest Ranger, Pasadena, Cal.

San Jacinto Forest Reserve—J. R. BELL, Forest Supervisor, Vallevista, Cal.

Santa Barbara Forest Reserve—W. M. SLOSSON, Forest Supervisor, Santa Barbara, Cal.; STEPHEN H. DOUGLASS, Forest Ranger, Ventura, Cal.

Sierra Forest Reserve (Northern Division)—C. H. SHINN, Forest Supervisor, Northfork, Cal.; ERNEST BRITTON, Forest Ranger, Three Rivers, Cal.; H. J. BROWN, Forest Assistant, Northfork, Cal.

Sierra Forest Reserve (Southern Division)—HARRISON WHITE, Forest Supervisor, Visalia, Cal.

Stanislaus Forest Reserve—S. L. N. ELLIS, Forest Ranger in charge, Sonora, Cal.; JOHN C. WELLS, Forest Ranger, Bridgeport, Cal.

Trabuco Canyon Forest Reserve—J. R. BELL, Forest Supervisor, Vallevista, Cal.

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Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.; J. H. MULLISON, Forest Ranger, Walden, Colo.

Pikes Peak Forest Reserve—JAMES H. CLARKE, Forest Supervisor, Denver, Colo.; G. E. CLEMENT, Forest Assistant, Denver, Colo.; W. D. EDMONSTON, Forest Ranger, Larkspur, Colo.

San Isabel Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.; W. J. MORRILL, Forest Assistant, Moffatt, Colo.

Wet Mountains Forest Reserve—R. W. SHELLABARGER, Forest Supervisor, Moffatt, Colo.; W. J. MORRILL, Forest Assistant, Moffatt, Colo.

White River Forest Reserve—HARRY GIBLER, Forest Ranger in charge, Buford, Colo.

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Weiser Forest Reserve—F. A. FENN, Forest Supervisor, Boise, Idaho; M. L. ERICKSON, Forest Assistant, Boise, Idaho.

MINNESOTA.

Minnesota Forest Reserve—G. E. MARSHALL, Forest Ranger in charge, Cass Lake, Minn.; Forest Rangers, W. R. MCKINNON, MARK BURNS, GEORGE FARLEY, and E. M. HAMILTON, Cass Lake, Minn.

MONTANA.

Bitter Root Forest Reserve (Montana Division)—E. A. SHERMAN, Forest Supervisor, Hamilton, Mont.

Elkhorn Forest Reserve—ROBERT J. MOORE, Forest Ranger in charge, Boulder, Mont.

Gallatin Forest Reserve—MICHAEL LANGOHR, Forest Supervisor, Bozeman, Mont.

Highwood Mountains Forest Reserve—JAMES G. THAIN, Forest Supervisor, Highwood, Mont.

Lewis and Clark Forest Reserve (Northern Division)—F. N. HAINES, Forest Supervisor, Kalispell, Mont.

Lewis and Clark Forest Reserve (Southern Division)—A. M. BLISS, Forest Supervisor, Ovando, Mont.; D. G. KINNEY, Forest Assistant, Ovando, Mont.; PAGE S. BUNKER, Forest Ranger, Ovando, Mont.

Little Belt Forest Reserve—IRA E. TODD, Forest Supervisor, Neihart, Mont.

Madison Forest Reserve—J. B. SEELY, Forest Supervisor, Virginia City, Mont.

Yellowstone Forest Reserve (Absaroka Division)—E. C. RUSSELL, Forest Supervisor, Tony, Mont.

NEW MEXICO.

Gila Forest Reserve—R. C. MCCLURE, Forest Supervisor, Silver City, N. Mex.; A. O. WAHA, Forest Assistant, Silver City, N. Mex.; RUFUS K. WADE, Forest Ranger, Mogollon, N. Mex.

Lincoln Forest Reserve—CLEMENT HIGHTOWER, Forest Supervisor, Capitan, N. Mex.; A. C. RINGLAND, Forest Assistant, Capitan, N. Mex.

Pecos River Forest Reserve—L. F. KNEIPP, Forest Ranger in charge, Santa Fe, N. Mex.

Portales Forest Reserve—A. L. CHESHER, Forest Ranger in charge, Portales, N. Mex.

OKLAHOMA.

Wichita Forest Reserve—E. F. MORRISSEY, Forest Supervisor, Cache, Okla.

OREGON.

Ashland Forest Reserve—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.
 Baker City Forest Reserve—S. S. TERRELL, Forest Supervisor, Sumpter, Oreg.

Bull Run Forest Reserve—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.

Cascade Forest Reserve (Northern Division)—ADOLF ASCHOFF, Forest Supervisor, Marmot, Oreg.; A. E. COHOON, Forest Assistant, Marmot, Oreg.; MILTON J. ANDERSON, Forest Ranger, The Dalles, Oregon.

Cascade Forest Reserve (Southern Division)—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.; A. E. COHOON, Forest Assistant, Roseburg, Oreg.

Chesnimnus Forest Reserve—H. K. O'BRIEN, Forest Ranger in charge, Wal-lowa, Oreg.

Maury Mountains Forest Reserve—A. S. IRELAND, Forest Ranger in charge, Prineville, Oreg.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.; H. D. FOSTER, Forest Assistant, Walla Walla, Wash.

Wallowa Forest Reserve—H. K. O'BRIEN, Forest Ranger in charge, Wallowa, Oreg.

SOUTH DAKOTA.

Black Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.; R. P. IMES, Forest Assistant, Deadwood, S. Dak.; JOHN F. SMITH, Forest Ranger, Custer, S. Dak.

Cave Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Short Pine Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Slim Buttes Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

UTAH.

Aquarius Forest Reserve—GEO. H. BARNEY, Forest Supervisor, Escalante, Utah.

Dixie Forest Reserve—SYLVANUS COLLETT, Forest Ranger in charge, Modena, Utah.

Fish Lake Forest Reserve—C. T. BALLE, Forest Supervisor, Fremont, Utah.

Grantsville Forest Reserve—CHARLES F. COOLEY, Forest Supervisor, Grantsville, Utah.

Logan Forest Reserve—J. F. SQUIRES, Forest Supervisor, Logan, Utah.

Manti Forest Reserve—A. W. JENSEN, Forest Supervisor, Ephraim, Utah.

Payson Forest Reserve—DAN S. PACK, Forest Supervisor, Payson, Utah.

Salt Lake Forest Reserve—E. H. CLARKE, Forest Ranger in charge, Murray, Utah.

Sevier Forest Reserve—BEAUREGARD KENNER, Forest Ranger in charge, Parowan, Utah; J. H. RAMSKILL, Forest Assistant, Parowan, Utah.

Uintah Forest Reserve—D. S. MARSHALL, Forest Supervisor, Kamas, Utah.

WASHINGTON.

Mount Rainier Forest Reserve—G. F. ALLEN, Forest Supervisor, Orting, Wash.; S. G. SMITH, Forest Assistant, Orting, Wash.; CHAS. E. RANDLE, Forest Ranger, Fairfax, Wash.

Olympic Forest Reserve—FRED HANSON, Forest Supervisor, Hoodspoint, Wash.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.; H. D. FOSTER, Forest Assistant, Walla Walla, Wash.

Washington Forest Reserve (Western Division)—G. B. COLEMAN, Forest Supervisor, Sumas, Wash.

Washington Forest Reserve (Eastern Division)—G. W. MILHAM, Forest Supervisor, Chelan, Wash.

WYOMING.

Big Horn Forest Reserve—W. E. JACKSON, Forest Supervisor, Bighorn, Wyo.; W. E. LA FOUNTAIN, Forest Ranger, Bighorn, Wyo.; JOHN MUSSELL, Scaler, Bighorn, Wyo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.

Yellowstone Forest Reserve (Wind River Division)—ZEPH JONES, Forest Supervisor, Pinedale, Wyo.; G. H. CECIL, Forest Assistant, Pinedale, Wyo.

Yellowstone Forest Reserve (Teton Division)—ROBERT E. MILLER, Forest Supervisor, Jackson, Wyo.; CLARENCE N. WOODS, Forest Ranger, Jackson, Wyo.

Yellowstone Forest Reserve (Shoshone Division)—W. H. PEARCE, Forest Supervisor, Wapiti, Wyo.; HARRY W. THURSTON, Forest Ranger, Marquette, Wyo.

United States Department of Agriculture,
FOREST SERVICE,
GIFFORD PINCHOT, Forester.

FIELD PROGRAMME FOR DECEMBER, 1905.

A programme of field work and assignments in the Forest Service is issued monthly during the field season. The names of members whose assignments are indefinite and reference to projects for which plans have not been matured are necessarily omitted.

It is requested that the members of the Forest Service cooperate in making this programme complete and accurate. Information concerning errors or omissions, and changes of project or of address for the following month, should be sent by members to the offices of their respective chiefs not later than the 20th of the month.

Unless the address of a member is given in this programme or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

Work conducted under the direction of the Forester is designated (F); Dendrology (D); Forest Management (M); Forest Products (P); Forest Extension (E); Forest Reserves (R).

ADMINISTRATION.

GIFFORD PINCHOT, *Forester*.

OVERTON W. PRICE, *Associate Forester*.

F. E. OLMS TED, *Assistant Forester in charge of inspection*.

GEO. B. SUDWORTH, *Chief of Dendrology*.

A. K. CHITTENDEN, *Acting Chief of Forest Management*.

WILLIAM L. HALL, *Chief of Forest Products*.

E. A. STERLING, *Chief of Forest Extension*.

COERT DU BOIS, *Chief of Section of Forest Reserves*.

JAMES B. ADAMS, *Chief of Records and Special Fiscal Agent*.

FIELD WORK.

ARIZONA.

(M) Working plans for portions of the Prescott Forest Reserve—M. SCHAAF, Prescott, Ariz.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, headquarters El Paso, Tex.

(E) Establishment of forest nurseries in the San Francisco Mountains Forest Reserve—W. B. HADLEY, Flagstaff, Ariz.

CALIFORNIA.

(D) New and little-known eucalypts for the United States—Prof. A. J. MCCLATCHIE, permanent address Montebello, Cal.

(D) Study of tanbark oaks of Pacific coast—Prof. W. L. JEPSON; permanent address, Berkeley, Cal.

(D) Special studies of California trees, four-leaf pine, Torrey pine, Bishop pine—Prof. W. R. DUDLEY; permanent address, Stanford University, Cal.

(D) Study of native and exotic acacias—Prof. A. V. STUBENRAUCH; permanent address, Berkeley, Cal.

(M) Inspection of working plans for forest reserves—W. B. GREELEY, 180 Perry street, Oakland, Cal.

(M) Study of the white fir—P. D. KELLETER, Occidental Hotel, San Francisco, Cal.

(M) Timber marking for the McCloud River Lumber Company—W. B. PIPER, McCloud, Cal.

(M) Working plans for portions of the Sierra Forest Reserve—W. B. GREELEY, 180 Perry street, Oakland, Cal.; assistants, C. J. BUCK, J. REBMANN, M. B. PRATT, P. T. HARRIS, W. G. DURBIN, H. L. TUCKER, and I. F. ELDREDGE.

(M) Examination of timber in the Santa Barbara Forest Reserve—F. G. PLUMMER, care W. B. GREELEY, 180 Perry street, Oakland, Cal.

(E) Study of the relation of forest cover to stream flow, in cooperation with the State—J. D. GUTHRIE, Occidental Hotel, San Francisco, Cal.

(E) Study of State forest lands, in cooperation with the State—S. J. FLINTHAM, Capitol Hotel, Sacramento, Cal.

(E) Preparation of planting plans, in cooperation with landowners—G. B. LULL, Hotel Lillie, Los Angeles, Cal.; assistant, H. O. STABLER.

(E) Nursery and planting work, Santa Barbara Forest Reserve—G. W. PEAVY, Pasadena, Cal.; assistant, B. R. H. D'ALLEMAND.

(E) Nursery and planting work, San Gabriel Forest Reserve—G. W. PEAVY, Pasadena, Cal.; assistant, A. T. SEARLE.

(P) Tests of the strength of eucalyptus wood, in cooperation with University of California—L. E. HUNT, Berkeley, Cal.; assistant, A. J. CLEARY.

(P) Experiments in preservative treatment of fence posts—R. W. AYRES, Santa Barbara, Cal.; assistant, A. H. PIERSON.

(P) Experiments in seasoning and treating telephone and other poles for electric wires in cooperation with electric companies in southern California—W. R. WHEATON, Hotel Lillie, Los Angeles, Cal.

CONNECTICUT.

(P) Timber tests, with special reference to the influence of rate of application of load on strength of longleaf pine, chestnut, and red spruce, in cooperation with Yale University—Prof. J. W. TOUMEY and H. D. TIEMANN, Yale Forest School, New Haven, Conn.; assistant, CORNELIUS BARRY.

(P) Experiments in wood preservatives—A. L. DEAN, Sheffield Scientific School, Yale University, New Haven, Conn.

DISTRICT OF COLUMBIA.

(P) Plans for timber treating and testing laboratory in Washington, D. C.—C. G. CRAWFORD and S. M. ROWE, Washington, D. C.

FLORIDA.

(D) Improved methods of turpentining, experimental pine forests in cooperation with the Hillman-Sutherland Land Company—FRANK KLARPP, Green Cove Springs, Fla.

HAWAII.

(E) Examination of lands for insular forest reserves—R. S. HOSMER, Honolulu, Hawaii.

INDIANA.

(P) Timber testing at Lafayette, Ind., in cooperation with Purdue University—Dr. W. K. HATT, Lafayette, Ind.; assistants, H. D. HARTLEY, O. P. M. GOSS, and T. A. NEWLIN.

MAINE.

(M) Study of popple—W. G. WEIGLE, Gardiner, Me.

MARYLAND.

(P) Experiments in seasoning chestnut telephone poles, in cooperation with the American Telephone and Postal Telegraph-Cable companies—H. F. WEISS, Parkton, Md.

MASSACHUSETTS.

(M) Woodlot and timber-tract examinations, in cooperation with the State—ALFRED AKERMAN, State Forester, Boston, Mass.

(P) Experiments to determine the value of various woods for pulp—A. D. LITTLE and H. S. BRISTOL, 93 Broad street, Boston, Mass.

MICHIGAN.

(P) Experiments in seasoning hemlock and tamarack cross-ties, in cooperation with the Chicago and Northwestern and Wisconsin Central Railroad Companies—H. A. PAUL, New Ludington Hotel, Escanaba, Mich.; assistant, C. S. SMITH.

(P) Experiments in seasoning cedar telephone poles, in cooperation with the American Telephone and Telegraph Company—C. E. FEAGIN, New Ludington Hotel, Escanaba, Mich.

MINNESOTA.

(M) Investigation of tie production for the Northern Pacific Railway Company, in cooperation with the company—H. H. CHAPMAN, 593 Holly avenue, St. Paul, Minn.

MISSISSIPPI.

(E) Study of forest problems, in cooperation with the State Agricultural and Mechanical College—GEO. L. CLOTHIER, Agricultural College, Miss.

MONTANA.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—R. V. R. REYNOLDS, Missoula, Mont.

NEBRASKA.

(E) Care of Government nursery, Dismal River Forest Reserve—C. A. SCOTT, Halsey, Nebr.; assistant, W. H. MAST.

NEVADA.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, El Paso, Tex.; assistants, R. B. WILSON and J. B. LIEBERG.

NEW HAMPSHIRE.

(M) Study of woodlot and forest conditions in southern New Hampshire, in cooperation with the State—C. A. LYFORD, Cheshire House, Keene, N. H.; assistants, A. T. BOISEN, H. C. NEEL, and B. MACKAYE.

(M) Mill scale study of second-growth white pine—L. MARGOLIN, South Sutton, N. H.; assistant, W. C. WICKHAM.

NEW MEXICO.

(E) Care of Government forest nursery, and preparation of planting plan for portions of the Fort Bayard Military Reservation—W. R. MATTOON, Fort Bayard, N. Mex.; assistants, A. S. PECK and C. H. SELLERS.

(R) Examination of lands for new forest reserves, additions to and eliminations from existing forest reserves—W. H. B. KENT, headquarters El Paso, Tex.; assistant, R. S. R. REYNOLDS.

NORTH CAROLINA.

(M) Examination of State lands—W. W. ASHE, Raleigh, N. C.; assistant, F. L. PRAY.

OREGON.

(P) Tests of red fir, in cooperation with University of Oregon—J. F. KNAPP, Eugene, Oreg.

SOUTH CAROLINA.

(M) Working plan for E. P. Burton Lumber Company, in cooperation with the company—H. G. MERRILL, Chicora, S. C.; assistants, F. M. PATTON, W. C. LATANE, JR., J. A. FITZWATER, R. G. MURDOCK, W. O. DAVIS, and C. E. DUNSTON.

(P) Tests of loblolly pine at mill of the E. P. Burton Lumber Company—H. S. BETTS, P. O. Box 494, Charleston, S. C.; assistant, M. CLINE.

TEXAS.

(D) Study of forest conditions of the Big Thicket country—Prof. W. L. BRAY, permanent address Austin, Tex.

UTAH.

(R) Examination of land for new forest reserves—CLYDE LEAVITT, Richfield, Utah.

VIRGINIA.

(P) Experiments in grading and treating cross-arms, in cooperation with the American Telephone and Telegraph Company—W. F. SHERFESEE, care Norfolk Creosoting Works, Norfolk, Va.

WASHINGTON.

(P) Tests of western hemlock, in cooperation with the University of Washington—ROLF THELEN, Seattle, Wash.

(P) Seasoning and treating experiments on red fir, tamarack, and cedar cross-ties, Tacoma and Pasco, Wash., and Sand Point, Idaho, in cooperation with the Northern Pacific Railway Company—H. B. EASTMAN, 117 South G street, Tacoma, Wash.

WYOMING.

(M) Examination of proposed working plans, Yellowstone Forest Reserve—I. T. WORTHLEY, Wapiti, Wyo.

REGIONAL STUDIES.

EASTERN STATES.

(M) Forest conditions in New England—AUSTIN CARY, Brunswick, Me.

(M) Preliminary examinations of timberlands, in cooperation with landowners—A. B. PATTERSON, Washington, D. C.

(E) Study of forest plantations—R. C. BRYANT, Washington, D. C.

MIDDLE WESTERN STATES.

(M) Woodlot examinations, in cooperation with landowners—W. BRADFIELD, Washington, D. C.

WESTERN STATES.

(M) Inspection of timber cuttings on the forest reserves—T. H. SHERRARD, Silver City, N. Mex.

(M) Inspection of working plans for forest reserves in the Southwest—E. E. CARTER, Santa Fe, N. Mex.

(M) Inspection of working plans for forest reserves in Montana and Wyoming—P. G. REDINGTON, Cody, Wyo.

GENERAL STUDIES.

(P) Collection of statistics of forest products for year 1905—R. S. KELLOGG, Washington, D. C.; GEO. K. SMITH, Equitable Building, St. Louis, Mo.

(P) Study of specifications for the grading of lumber—E. R. HODSON, Washington, D. C.

(P) Supervision of seasoning experiments—HENRY GRINNELL, Washington, D. C.

(P) Study of woods used in the cooperage industry—J. J. LEVISON and H. M. HALE, Washington, D. C.

(P) Study of woods used in the vehicle and implement industry—H. B. HOLROYD, Washington, D. C.

(P) Study of woods used for street paving—C. L. HILL, Washington, D. C.

(P) Study of woods used for box and basket purposes—J. P. WENTLING, Washington, D. C.

(P) Study of methods of kiln drying—FREDERICK DUNLAP, Washington, D. C.

(P) Study of methods of wood distillation—THOMAS W. PRITCHARD, Washington, D. C.

FOREST RESERVES.

E. T. ALLEN, *Forest Inspector*, Sacramento, Cal.

E. S. BRUCE, *Forest Inspector*, Deadwood, S. Dak.

SMITH RILEY, *Forest Inspector*, Glenwood Springs, Colo.

ELERS KOCH, *Forest Inspector*, Bozeman, Mont.

D. B. SHELLER, *Forest Superintendent*, Tacoma, Wash.

ALASKA.

Afognak and Alexander Archipelago forest reserves—W. A. LANGILLE, Forest Inspector in charge of reserves in Alaska, Ketchikan, Alaska.

ARIZONA.

Black Mesa Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; T. S. WOOLSEY, JR., Forest Assistant, Flagstaff, Ariz.; W. L. LA FOUNTAIN, Assistant Forest Inspector, Flagstaff, Ariz.

Chiricahua Forest Reserve—C. T. McGNONE, Forest Supervisor, Paradise, Ariz.

Grand Canyon Forest Reserve (Northern Division)—LORUM PRATT, Forest Supervisor, Fredonia, Ariz.

Grand Canyon Forest Reserve (Southern Division)—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; T. S. WOOLSEY, JR., Forest Assistant, Flagstaff, Ariz.; PATRICK A. FENTON, Forest Ranger, Grand Canyon, Ariz.

Mount Graham Forest Reserve—J. W. FARMER, Forest Ranger in charge, Safford, Ariz.

Pinal Mountains Forest Reserve—H. A. E. MARSHALL, Forest Ranger in charge, Globe, Ariz.

Prescott Forest Reserve—F. C. W. POOLER, Forest Ranger in charge, Prescott, Ariz.

San Francisco Mountains Forest Reserve—FRED S. BREEN, Forest Supervisor, Flagstaff, Ariz.; T. S. WOOLSEY, JR., Forest Assistant, Flagstaff, Ariz.

Santa Rita Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Santa Catalina Forest Reserve—T. F. MEAGHER, Forest Supervisor, Tucson, Ariz.

Tonto Forest Reserve—W. H. REED, Forest Ranger in charge, Globe, Ariz.; W. W. CLARK, Forest Assistant, Globe, Ariz.

CALIFORNIA.

Diamond Mountain Forest Reserve—L. A. BARRETT, Forest Supervisor, Quincy, Cal.; A. R. POWERS, Forest Assistant, Quincy, Cal.

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Leadville Forest Reserve—WILLIAM W. HOOPER, Forest Ranger in charge, Leadville, Colo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.

Park Range Forest Reserve—THOMAS HOGAN, Forest Ranger in charge, Kremmling, Colo.

Pikes Peak Forest Reserve—JAMES H. CLARKE, Forest Supervisor, Denver, Colo.; G. E. CLEMENT, Forest Assistant, Denver, Colo.; W. D. EDMONSTON, Forest Ranger, Larkspur, Colo.

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IDAHO.

Bitter Root Forest Reserve—CASSIUS M. DAY, Forest Supervisor, Kooskia, Idaho; J. E. BARTON, Forest Assistant, Kooskia, Idaho.

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Pocatello Forest Reserve—P. T. WRENSTED, Forest Supervisor, Pocatello, Idaho.

Priest River Forest Reserve—B. F. McCONNELL, Forest Supervisor, Williams, Idaho; L. VON WERNSTEDT, Forest Agent, Williams, Idaho.

Sawtooth Forest Reserve—F. A. FENN, Forest Supervisor, Boise, Idaho; M. L. ERICKSON, Forest Assistant, Boise, Idaho.

Weiser Forest Reserve—F. A. FENN, Forest Supervisor, Boise, Idaho; M. L. ERICKSON, Forest Assistant, Boise, Idaho.

MINNESOTA.

Minnesota Forest Reserve—G. E. MARSHALL, Forest Ranger in charge, Cass Lake, Minn.; W. R. MCKINNON, MARK BURNS, GEORGE FARLEY, J. S. BAIRD, W. N. BRADISH, and SEWELL TIBBETTS, Forest Rangers, Cass Lake, Minn.; FRANK TOMPKINS, Forest Agent, Cass Lake, Minn.

MONTANA.

Bitter Root Forest Reserve (Montana Division)—E. A. SHERMAN, Forest Supervisor, Hamilton, Mont.

Elkhorn Forest Reserve—ROBERT J. MOORE, Forest Ranger in charge, Boulder, Mont.

Gallatin Forest Reserve—MICHAEL LANGOHR, Forest Supervisor, Bozeman, Mont.

Hell Gate Forest Reserve—NAT. E. WILKERSON, Forest Ranger in charge, Missoula, Mont.

Highwood Mountains Forest Reserve—JAMES G. THAIN, Forest Supervisor, Highwood, Mont.

Lewis and Clark Forest Reserve (Northern Division)—F. N. HAINES, Forest Supervisor, Kalispell, Mont.

Lewis and Clark Forest Reserve (Southern Division)—PAGE S. BUNKER, Forest Ranger in charge, Columbia Falls, Mont.; D. G. KINNEY, Forest Assistant, Ovando, Mont.

Little Belt Forest Reserve—IRA E. TODD, Forest Supervisor, Neihart, Mont.

Madison Forest Reserve—J. B. SEELY, Forest Supervisor, Virginia City, Mont.

Yellowstone Forest Reserve (Absaroka Division)—E. C. RUSSELL, Forest Supervisor, Tony, Mont.

NEW MEXICO.

Gila Forest Reserve—R. C. MCCLURE, Forest Supervisor, Silver City, N. Mex.; A. O. WAHA, Forest Assistant, Silver City, N. Mex.; RUFUS K. WADE, Forest Ranger, Mogollon, N. Mex.

Lincoln Forest Reserve—CLEMENT HIGHTOWER, Forest Supervisor, Capitan, N. Mex.; A. C. RINGLAND, Forest Assistant, Capitan, N. Mex.

Pecos River Forest Reserve—L. F. KNEIPP, Forest Ranger in charge, Santa Fe, N. Mex.

Portales Forest Reserve—A. L. CHESHER, Forest Ranger in charge, Portales, N. Mex.

OKLAHOMA.

Wichita Forest Reserve—E. F. MORRISSEY, Forest Supervisor, Cache, Okla.

OREGON.

Ashland Forest Reserve—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.

Baker City Forest Reserve—S. S. TERRELL, Forest Supervisor, Sumpter, Oreg.

Bull Run Forest Reserve—D. D. BRONSON, Forest Inspector in charge, Portland, Oreg.

Cascade Forest Reserve (Northern Division)—D. D. BRONSON, Forest Inspector in charge, Portland, Oreg.; A. E. COHOON, Forest Assistant, Marmot, Oreg.; MILTON J. ANDERSON, Forest Ranger, The Dalles, Oreg.

Cascade Forest Reserve (Southern Division)—S. C. BARTRUM, Forest Supervisor, Roseburg, Oreg.; A. E. COHOON, Forest Assistant, Roseburg, Oreg.

Chesnimnus Forest Reserve—H. K. O'BRIEN, Forest Ranger in charge, Wallowa, Oreg.

Maury Mountains Forest Reserve—A. S. IRELAND, Forest Ranger in charge, Prineville, Oreg.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.; H. D. FOSTER, Forest Assistant, Walla Walla, Wash.

Wallowa Forest Reserve—H. K. O'BRIEN, Forest Ranger in charge, Wallowa, Oreg.

SOUTH DAKOTA.

Black Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.; R. P. IMES, Forest Assistant, Deadwood, S. Dak.; JOHN F. SMITH, Forest Ranger, Custer, S. Dak.; E. M. HAMILTON, Assistant Forest Inspector, Rochford, S. Dak.

Cave Hills Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Short Pine Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

Slim Buttes Forest Reserve—SETH BULLOCK, Forest Supervisor, Deadwood, S. Dak.

UTAH.

Aquarius Forest Reserve—GEO. H. BARNEY, Forest Supervisor, Escalante, Utah.

Dixie Forest Reserve—SYLVANUS COLLETT, Forest Ranger in charge, St. George, Utah.

Fish Lake Forest Reserve—C. T. BALLE, Forest Supervisor, Fremont, Utah.

Grantsville Forest Reserve—CHARLES F. COOLEY, Forest Supervisor, Grantsville, Utah.

Logan Forest Reserve—J. F. SQUIRES, Forest Supervisor, Logan, Utah.

Manti Forest Reserve—A. W. JENSEN, Forest Supervisor, Ephraim, Utah.

Payson Forest Reserve—DAN S. PACK, Forest Supervisor, Payson, Utah.

Salt Lake Forest Reserve—E. H. CLARKE, Forest Ranger in charge, Murray, Utah.

Sevier Forest Reserve—BEAUREGARD KENNER, Forest Ranger in charge, Parowan, Utah; J. H. RAMSKILL, Forest Assistant, Parowan, Utah.

Uintah Forest Reserve—D. S. MARSHALL, Forest Supervisor, Kamas, Utah.

WASHINGTON.

Mount Rainier Forest Reserve—G. F. ALLEN, Forest Supervisor, Orting, Wash.; S. G. SMITH, Forest Assistant, Orting, Wash.; CHAS. E. RANDLE, Forest Ranger, Fairfax, Wash.

Olympic Forest Reserve—FRED HANSON, Forest Supervisor, Hoodsport, Wash.

Wenaha Forest Reserve—J. M. SCHMITZ, Forest Ranger in charge, Walla Walla, Wash.; H. D. FOSTER, Forest Assistant, Walla Walla, Wash.

Washington Forest Reserve (Western Division)—G. B. COLEMAN, Forest Supervisor, Sumas, Wash.

Washington Forest Reserve (Eastern Division)—G. W. MILHAM, Forest Supervisor, Chelan, Wash.

WYOMING.

Big Horn Forest Reserve—W. E. JACKSON, Forest Supervisor, Bighorn, Wyo.; JOHN MUSSELL, Scaler, Bighorn, Wyo.

Medicine Bow Forest Reserve—L. G. DAVIS, Forest Supervisor, Saratoga, Wyo.; C. G. SMITH, Forest Assistant, Saratoga, Wyo.

Yellowstone Forest Reserve (Wind River Division)—ZEPH JONES, Forest Supervisor, Pinedale, Wyo.; G. H. CECIL, Forest Assistant, Pinedale, Wyo.

Yellowstone Forest Reserve (Teton Division)—ROBERT E. MILLER, Forest Supervisor, Jackson, Wyo.; CLARENCE N. WOODS, Forest Ranger, Jackson, Wyo.

Yellowstone Forest Reserve (Shoshone Division)—W. H. PEARCE, Forest Supervisor, Wapiti, Wyo.; HARRY W. THURSTON, Forest Ranger, Marquette, Wyo.

SERVICE CHANGES IN NOVEMBER.

APPOINTED.

THOMAS J. PRITCHARD, Expert, \$1,500 per annum; assigned to study of wood distillation as a means of utilizing lumber waste, Office of Forest Products.

W. W. CLARK, Forest Assistant, \$1,500 per annum; assigned to the Tonto Forest Reserve as technical assistant.

W. H. SHIR-CLIFF, clerk, \$1,400 per annum; assigned to Section of Accounts.

H. C. METCALF, clerk, \$1,200 per annum; assigned to Section of Accounts as Auditor of Property.

Mrs. M. F. RULE, clerk, \$720 per annum; assigned to Section of Files, Stenography, and Typewriting.

C. J. C. AUCOIN, messenger, \$360 per annum.

R. G. MURDOCK, Forest Student, \$300 per annum; assigned to Forest Management.

C. E. DUNSTON, Forest Student, \$300 per annum; assigned to Forest Management.

HARRY G. HAYES, Assistant Forest Ranger, \$1,000 per annum, Cascade Forest Reserve, Oregon.

ANDREW G. STOCKWELL, Assistant Forest Ranger, \$1,000 per annum, Bighorn Forest Reserve, Wyoming.

The following Forest Guards have been appointed Assistant Forest Rangers at \$900 per annum, having been certified by the Civil Service Commission:

EMERT H. LEATON and RALPH W. GORDON, Black Hills Forest Reserve, South Dakota.

E. F. HASTINGS, EUGENE McDANIELS, and E. B. LONG, Black Mesa Forest Reserve, Arizona.

FOREST HALE and LEWIS PYLE, Tonto Forest Reserve, Arizona.

BENJ. MATTICE, Santa Catalina Forest Reserve, Arizona.

WM. ANTONINI, OLIVE P. BROWNLOW, W. J. RUSHING, THOS. C. WEST, and WILLARD L. LEARS, Stanislaus Forest Reserve, California.

V. L. BONNER, J. O. STINER, E. B. PAYNE, and C. E. RACHFORD, Warner Mountains and Modoc forest reserves, California.

GEO. E. ROOT, Santa Barbara Forest Reserve, California.

MALCOLM MCLEOD, J. E. RAE, and ANDIE WAFFORD, Sierra (N.) Forest Reserve, California.

BREWER A. COLBURN, Sierra (S.) Forest Reserve, California.

A. H. JAMISON, Bitter Root Forest Reserve, Idaho.

JAS. F. BACH and F. H. CRITCHFIELD, Cassia Forest Reserve, Idaho.

U. C. POGGE, F. J. STEELE, THOS. WASSON, and LESTER LEWIS, Henrys Lake Forest Reserve.

DAVID LAING, CARL IMES, R. H. RUTLEDGE, J. W. JORGENS, EMIL GRANDJEAN, E. L. RIGGS, and WM. MCCOY, Fayette, Sawtooth, and Weiser forest reserves, Idaho.

ARTHUR C. McCAIN, VIRGIL T. WOOD, and CHAS. E. SCHOONOVER, Lewis and Clark (S.) Forest Reserve, Mont.

VICTOR MUMBRE, WELLMAN HOLBROOK, and W. S. PERRINE, Little Belt Forest Reserve, Montana.

H. S. KAUFMAN, J. H. WRIGHT, and C. L. BRYANT, Yellowstone Forest Reserve, Montana.

JOHN B. CASE, WM. H. GODDARD, and JAS. E. CULLOM, Gila Forest Reserve, New Mexico.

D. L. WILLIAMS, Pecos River Forest Reserve, New Mexico.

JAS. H. KINNEY, Lincoln Forest Reserve, New Mexico.

ERNEST WINKLER, Manti Forest Reserve, Utah.

WM. D. FUNK, Sevier Forest Reserve, Utah.

WM. W. SMITH, Salt Lake Forest Reserve, Utah.

WM. M. ANDERSON, Uintah Forest Reserve, Utah.

ALBERT L. HAASE and RUSSELL B. PIERPONT, Washington Forest Reserve, Washington.

JOHN RAPHAEL and THOS. M. BOURM, Yellowstone Forest Reserve, Wyoming.

HARVEY V. COLE, Madison Forest Reserve, Montana.

GEORGE CRESS, J. M. CUENIN, O. S. MACKELFRESH, and A. H. HOFFMAN, San Isabel, Cochetopa, and Wet Mountains forest reserves, Colorado.

PERRY L. SNODGRASS, HERBERT N. WHEELER, CHAS. W. PACE, and ROBERT N. UNDERWOOD, Gunnison Forest Reserve, Colorado.

WILLIAM WALTER, ISAIAH W. FOSTER, and HARRY H. FRENCH, Holy Cross Forest Reserve, Colorado.

A. A. CLAYSON, CHAS. WILLIAMS, and CHAS. BONIFIELD, Leadville Forest Reserve, Colorado.

LEON A. WARD, Pikes Peak Forest Reserve, Colorado.

THEODORE T. KINSEY, Medicine Bow Forest Reserve, Colorado.

PROMOTED.

WILLIAM H. REED, Forest Ranger, \$1,080 to \$1,500 per annum; assigned to Tonto Forest Reserve as Forest Ranger in charge; promotion made on record as Ranger, and in view of increased responsibility.

NATHANIEL E. WILKERSON, Forest Ranger, \$1,000 to \$1,200 per annum; assigned to Hell Gate Forest Reserve as Forest Ranger in charge; promotion made on record as Ranger, and in view of increased responsibility.

THOMAS HOGAN, Forest Ranger, \$720 to \$900 per annum; assigned to Park Range Forest Reserve as Forest Ranger in charge; promotion made on record as Ranger, and in view of increased responsibility.

JOHN W. FARMER, Forest Ranger, \$900 to \$1,450 per annum; assigned to Mount Graham Forest Reserve as Forest Ranger in charge; promotion made on record as Ranger, and in view of increased responsibility.

E. M. HAMILTON, Forest Ranger at \$1,200 per annum, to Timber Scaler at \$1,500 per annum; assigned to Black Hills Forest Reserve to take charge of scaling; promotion made on record as Ranger, and material increase in responsibility.

R. D. DEWELL, Assistant Forest Ranger, Lewis and Clark (S.) Forest Reserve, \$720 to \$900 per annum; promotion made on record as Ranger, and in view of increased responsibility.

The following promotions of Forest Rangers on the Bighorn Forest Reserve were made for efficiency, and on account of increased living expenses due to changed conditions on the reserve:

FRANK KUENY, \$1,000 to \$1,200 per annum.

RODERICK McDONALD, \$900 to \$1,000 per annum.

FRANK W. KURTZ, \$720 to \$1,000 per annum.

EDGAR W. SMITH, \$720 to \$840 per annum.

AUGUST HETTINGER, \$720 to \$840 per annum.

B. R. H. d'ALLEMAND, Forest Student at \$300 per annum, to Assistant Forest Expert at \$500 per annum; promotion due to change from field to office work.

CLIFFORD F. QUEEN, messenger, \$360 to \$400 per annum, to fill vacancy on statutory roll.

C. G. CRAWFORD has been designated as Chief of the Section of Wood Preservation, and R. S. KELLOGG Chief of the Section of Lumber Trade. Hitherto these sections have been directly in charge of the Chief of Forest Products.

RESIGNATION ACCEPTED.

W. C. WARD, Forest Ranger, Bull Run Forest Reserve.

RESIGNED FROM THE SERVICE.

Miss LULA C. ECKMAN, clerk.

Miss PEARL E. HARRISON, clerk.

